

COTTAGERS' SELF-HELP PROGRAM

ENRICHMENT STATUS OF LAKES

IN THE

SOUTHEASTERN REGION

OF ONTARIO

1988

MARCH 1990



Ontario

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Environnement

Jim Bradley Minister/ministre

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Report prepared by:
Water Resources Assessment Unit
Technical Support Section
Southeastern Region

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T A B L E O F C O N T E N T S

Introduction	1
Acknowledgements	2
Causes and Effects of Nutrient Enrichment	3
Lake Monitoring	6
Lake Classification	7
Evaluation of Results	9
Appendix	14

INTRODUCTION

This report is the fifteenth of a continuing series of reports on the Cottager's Self-Help program for the Southeastern Region of Ontario. The Self-Help program relies on the volunteer assistance of cottagers and other waterfront property owners to monitor the water quality of our inland recreational lakes. The monitoring consists of regular observations on the water clarity of the lakes together with determinations of their algae content. Although water clarity and the prevalence of algae are only two measures of water quality, they allow a very good assessment of the condition of a lake in terms of its suitability for recreational use.

This report presents results for 94 bodies of water enrolled in the Self-Help program in the Southeastern Region of Ontario during 1988. The Southeastern Region includes Prince Edward and Hastings Counties and extends eastward to the Ottawa River and the Ontario-Quebec border. As found during previous years, most lakes in the region have very good water quality. There were, however, a few exceptions where high algae levels may have from time to time limited the use and enjoyment of the lake.

ACKNOWLEDGMENTS

The Self-Help program would not be possible without the corps of dedicated volunteers who undertake lake clarity measurements and water sample collections. The information that they help to provide contributes to the management and protection of our recreational lakes. We especially appreciate the contribution of the following organizations and individuals that have ensured a 10 year or longer record of water quality monitoring on their lake.

Bass Lake Cottage Association
 Baptiste Lake Association
 Battersea-Loughborough Association
 Bon Echo Provincial Park
 Buck Lake Protective Association
 Charleston Lake Provincial Park
 Charleston Lake Ratepayers Association
 Christie Lake Association
 Dalhousie Lake Association
 Desert Lake Property Owners Association
 Diamond Lake Cottagers Association
 West Devil Lake Property Owners Association
 Gananoque Lake Property Owners Association
 Mrs. R. Biddle (Eagle Lake)
 Mr. R. Langlais (Eagle Lake)
 North Shore Grippen Lake Cottage Association
 Mr. R. F. Sanderson (Hay Bay)
 Limerick Waterways Ratepayers Association
 Little Silver Lake Property Owners Association
 Lower Beverly Lake Protective Association
 Mink Lake Betterment Association
 Moira Cottagers for Clean Water
 Muskrat Lake Improvement Association
 Norway Lake Property Owners Association
 Mr. J. O'Dette (Mosque Lake)
 Mr. E. Briscoe (Olmstead Lake)
 Dr. A. W. Kahn (Otter Lake)
 Otty Lake Association
 Pike Lake Property Owners Association
 Salmon Trout Lake Cottage Association
 Sharbot Lake Provincial Park
 Mr. J. Arnold (Troy Lake)
 Silver Lake Protective Association
 White Lake Water Quality Committee

CAUSES AND EFFECTS OF NUTRIENT ENRICHMENT

Lakes are one of Ontario's most valuable assets. We are fortunate to have many hundreds of lakes. Increasing amounts of leisure time and growing affluence combined with easy accessibility of lakes from urban centres of population have culminated in the development of the shorelines of many of our lakes with summer cottages, permanent homes, campgrounds and vacation resorts.

There is a concern that increasing development and recreational activity can threaten the water quality of our lakes. One of the greatest threats to lake water quality is the over production of aquatic weeds and microscopic floating green plants collectively referred to as algae.

A certain amount of algae is essential to the proper functioning of a healthy lake ecosystem. Algae form a food resource for all the rest of the life in a lake and through the process of photosynthesis replenish the supply of oxygen in the water. However, increasing levels of algae cause a lake to become progressively more turbid and water clarity is diminished as a result. In some situations, pea-soup surface scums called algal blooms may occur. Under "bloom" conditions the lake is unsuitable for swimming and other water oriented recreational activities. Algal blooms affect more than just the surface of the water. As the algae die they sink and decompose using up the limited supply of oxygen

at the bottom of a lake. Deep water fish such as lake trout and other aquatic life that inhabit these depths are deprived of the oxygen that they need in order to survive. (In shallow lakes, less than 10 metres deep, oxygen depletion does not occur because winds keep the lake well mixed all the way to the bottom.)

To grow, algae like all green plants, need nutrients such as nitrogen and phosphorus. In the days before European settlement the inputs and levels of nutrients in lake waters are believed to have been much lower than they are today. Low concentrations of nutrients naturally limited the production of aquatic weeds and algae. The rate of supply has been influenced by human activities. Any disturbance of the ground or vegetative cover that exposes soil to erosion can increase the runoff of sediment bound nutrients from the land to a lake. For example, the clearing of forests and cultivation of land has created a substantial increase in the supply of nutrients in surface runoff. In addition, the use of fertilizers can also increase the concentration of nitrogen and phosphorus.

Shoreline development can also increase the supply of plant nutrients to a lake. As development occurs much of the natural ground cover is replaced with roads, lawns, tile fields, roofs and gardens. Runoff that was once filtered through forest soils and vegetative undergrowth flows

directly to the lake. This "urban" runoff is contaminated with high levels of phosphorus and nitrogen from sediment particles, fertilizer residues and animal wastes. Even swimming in a lake can raise its nutrient concentrations by disturbing areas of rich lake bottom sediments and redistributing nutrients back into the water.

The disposal of domestic sewage may be the most significant potential source of phosphorus arising from shoreline development. Septic tanks and tile fields are the most common form of sewage disposal in rural areas. Human and household wastes are rich in phosphorus and nitrogen. Although conventional septic tank -tile field systems are extremely effective at removing bacteria from sewage, they are limited in their ability to prevent the escape of nutrients. Nitrogen and phosphorus can travel in ground water to reach an adjacent lake or watercourse. The degree of movement depends upon the type of soil between the tile bed and the lake, the slope of the lot, the depth to the water table and the distance from the lake.

Some lakes are naturally productive of weeds and algae. Even the best land use planning and shoreline development controls cannot ameliorate water quality problems associated with such water bodies. In other lakes the production of weeds and algae can be held within acceptable limits by ensuring that phosphorus and nitrogen and other wastes entering a lake are

maintained below critical levels. For the largely forested PreCambrian shield area of the province that makes up most of our cottage country, the more obvious controllable sources of nutrient enrichment are those associated with shoreline development. On certain sensitive lakes, restrictions and controls on shoreline development may be necessary to preserve their water quality.

LAKE MONITORING

In 1970 the province initiated a comprehensive lake water quality survey program to inventory the water quality status of our lakes and to identify lakes that might be sensitive to water quality deterioration by nutrient enrichment. Since 1970 over 300 lakes have been surveyed in the Southeastern region of the province alone. While most of our lakes were found to have water quality suitable for a variety of recreational pursuits, continual monitoring is necessary to maintain a current record of their conditions and to define and understand any changes or trends that might be developing. The provincial government does not have the staff nor the resources to visit more than a few lakes in any given year. Therefore a "self-help" program was set up to obtain the assistance of lake associations, individual cottagers and other waterfront property owners with this undertaking. The participants in the self-help program

volunteer a half hour or so of their time each week or two during the summer to measure the water clarity of their lake with a Secchi disc and to collect a sample of water and arrange for its delivery to a Ministry of the Environment laboratory. The Ministry of the Environment analyses the samples and interprets the results.

A Secchi disc is a circular plate 20 cm in diameter that is painted with black and white opposing quadrants. The depth at which it disappears from view when slowly lowered into a lake is a standard measure of water clarity. The water samples are analyzed for chlorophyll content. Chlorophyll is a pigment that is present in all green plants including algae. The concentration of chlorophyll in a sample of water is a chemical measure of the amount of algae in a lake at the time of sampling.

LAKE CLASSIFICATION

While Secchi disc water clarity readings and chlorophyll concentrations are only two measures of water quality they allow an extremely good assessment of how pristine or nutrient enriched a lake is. Table 1 below is a lake classification scheme based on Secchi disc visibility depths and chlorophyll concentrations.

Table 1

Enrichment status	Average Secchi disc visibility depth (metres)	Average chlorophyll a concentration (micrograms per litre)
enriched	< 3 m	> 6 ug/l
moderately enriched	3 - 5 m	3 - 6 ug/l
unenriched	> 5 m	< 3 ug/l

note < less than; > greater than

Enriched lakes have high concentrations of nutrients as manifested by excessive growths of aquatic weeds and algae. As a result of large amounts of algae suspended in the water Secchi disc visibility depths are generally less than 3 metres and chlorophyll concentrations are greater than 6 ug/l.

Unenriched lakes have very low concentrations of nutrients as evidenced by only a very sparse population of aquatic weeds and very low levels of algae. They are usually very clear lakes with Secchi disc visibility depths over 5 metres and chlorophyll concentrations less than 3 ug/l. If they are deep lakes (>30 metres) they may support a cold water fishery such as lake trout.

Moderately enriched lakes are intermediary between the above two lake types and are characterized by moderate growths of aquatic weeds and algae. They are suitable for a wide range

of water oriented recreational activities and are capable of supporting a more productive fishery than the unenriched lakes but generally for warm water species such as walleye or bass. Secchi disc visibility depths range from 3 to 5 metres and chlorophyll concentrations from 3 to 6 ug/l.

EVALUATION OF RESULTS

Table 2 and the individual lake data printouts present the Secchi disc depth visibility and chlorophyll concentration results for 94 bodies of water enrolled in the self-help program in the Southeastern Region of Ontario during 1988. A total of 1156 pairs of observations were made on these 94 bodies of water averaging over 12 observations per lake. The Southeastern region includes Prince Edward and Hastings Counties and extends eastward to the Ottawa River and the Ontario-Quebec border.

The Secchi disc visibilities and chlorophyll concentrations can be used to evaluate the present condition of a lake based on the nutrient enrichment classification scheme presented in table 1 above. The data indicate that most of the lakes in this region have water quality which is well suited for a diversity of recreational pursuits including those that involve body contact with the water such as swimming and bathing. There were, however, some exceptions; most notably Hay Bay, South, Moira, and Stoco Lakes. Poor water clarity and high chlorophyll concentrations indicated that

Table 2: Mean Chlorophyll Concentrations (ug/l)
and Mean Secchi Disc Visibility Depths (m) 1988

LAKE	CHLORO	SECCHI	NOTE
BAGOT LONG	1.2	4.4	
BAPTISTE	1.5	4.5	
BASS	1.0	5.6	
BAY	0.8	5.8	
BEAVER - SOUTH BASIN	3.3	2.4	
BIG GULL (CLARENDON)	1.8	4.4	
BIG RIDEAU	1.9	3.4	
BIG RIDEAU - BRITON BAY	2.3	4.2	
BLACK	3.9	5.1	
BLACK BAY	1.4	3.3	
BLACK DONALD	0.8	5.8	
BOBS - LONG BAY	1.7	5.4	1
BOBS - MUD BAY	6.2	2.5	
BOIS DUR, LAC DU	1.2	3.9	1
BRULE (WENSLEY)	0.8	7.5	
BUCK - NORTH BAY - NORTH END	2.6	5.1	
BUCK - NORTH BAY - SOUTH END	2.1	4.9	
BUCK - SOUTH BAY	2.0	5.4	
BURRIDGE	0.8	4.6	
CASHEL	0.8	4.6	
CHARLESTON - GOOSE ISLAND	2.4	3.8	
CHARLESTON - WEBSTERS BAY	2.3	3.9	
CHARLESTON - WESTERN WATER	2.3	3.9	
CHIPPEGO	1.9	3.6	
CHRISTIE	2.8	5.2	
CROSBY (BIG CROSBY)	1.8	4.7	
CROWE	2.1	2.9	
DAVERN	1.8	5.4	
DEMPSEY (VIRGIN)	3.0	5.2	
DESERT	1.6	4.5	
DEVIL	1.6	5.4	
DIAMOND	1.0	5.6	
DICKEY - NORTH BASIN	2.2	4.1	
DICKEY - SOUTH BASIN	1.2	4.8	
DOG - NORTH BASIN	5.4	2.5	
EAGLE	2.4	5.2	
EAST	6.3	1.7	
FARREN (FARRELL)	1.2	4.8	
GANANOQUE	4.8	2.7	
GREEN (BROUGHAM TOWNSHIP)	1.7	8.6	
GREEN (RADCLIFFE TOWNSHIP)	1.2	5.4	
GRINDSTONE	1.8	5.0	
GUNTER	0.8	4.5	
HAY BAY	20.2	1.5	
HURDS	2.3	3.9	
HUTSON	1.3	5.2	1
INDIAN	2.1	4.0	
JEFFREY	0.9	6.9	1
JEFFREYS (OLMSTEAD)	1.1	6.5	
JOEPERRY	1.7	3.0	

LAKE	CHLORO	SECCHI	NOTE
KASHWAKAMAK	1.0	2.7	1
KENNEBEC - EAST BASIN	3.2	2.9	
KENNEBEC - WEST BASIN	2.9	3.1	1
KILLENBECK	5.5	2.9	
LIMERICK	1.5	4.6	
LITTLE FRANKLIN	3.9	3.6	
LITTLE SILVER	2.6	4.3	
LOUGHBOROUGH - EAST BASIN	3.8	2.9	
LOUGHBOROUGH - WEST BASIN	2.8	5.5	1
LOWER BEVERLEY - MAIN BASIN	4.2	2.7	
LOWER BEVERLEY - OAK BAY	6.1	1.9	
MAZINAW	0.9	3.8	
MINK	1.9	3.9	
MOIRA - EAST BASIN	6.2	2.6	
MOIRA - WEST BASIN	15.4	1.4	
MOSQUE - NORTH & SOUTH BASINS	1.1	4.7	
MOSQUE - WEST BASIN	1.8	3.9	
MUSKRAT	8.7	3.1	
NORWAY	2.6	5.2	
OPINICON	3.4	3.6	
OTTER	1.8	3.4	
OTTY	2.0	4.7	
PAUGH	0.7	6.3	1
PIKE	2.0	5.5	
RED HORSE - EAST BASIN	2.0	3.9	
RED HORSE - WEST BASIN	3.2	4.0	
SAINT ANDREW	4.8	2.7	
SAINT PETER	1.7	5.0	1
SALMON TROUT	4.7	4.3	
SAND	3.6	4.0	
SHABOMEKA	2.0	5.2	
SILVER	1.8	3.8	
SKOOTAMATTA - WEST BASIN	1.1	3.9	
SOUTH	23.7	1.7	
STEENBURG	0.3	4.0	1
STOCO - NORTH BASIN	16.9	1.5	
SYDENHAM	4.7	5.0	
TAIT	1.2	4.4	
THIRTEEN ISLAND	2.8	4.1	
TROY	4.8	3.3	
TWIN SISTER - EAST BASIN	3.7	3.6	
TWIN SISTER - WEST BASIN	1.8	3.5	
WEST	12.1	0.7	
WOLLASTON	1.3	4.6	

- 1 The mean may not accurately reflect seasonal conditions in these lakes as less than 6 sets of measurements were collected.

algal densities may have from time to time limited the recreational use and enjoyment of these lakes during the summer months.

A record of seasonal mean Secchi disc visibility and chlorophyll concentrations for previous years that a lake was enrolled in the self-help program is provided on the individual lake report printout sheets beside the table with the current year's data. These data will provide a valuable record of water quality that can be compared over the years to identify and understand changes that may occur in our lakes.

In our last report it was noted that most lakes enrolled in the self-help program experienced a noticeable improvement in water quality during 1987 as evidenced by higher Secchi disc visibility readings and lower chlorophyll concentrations compared to the values for these measurements in previous years. Improved water quality conditions were sustained in 1988. The summers of both 1987 and 1988 were periods of extremely dry weather compared to the long term norm for rainfall. It is believed that reduced amounts of surface runoff limited the supply of algae producing nutrients available to these lakes over the course of the growing season during the past two years. The reduction in the nutrient supply was large enough to limit the production of algae in these lakes.

Over the longer term it can be seen that some lakes have an annual average Secchi disc visibility depth and chlorophyll concentration that have remained relatively constant from year to year. It is apparent that their water quality enrichment status is not changing. For other lakes, year to year fluctuations in these measurements have been subject to quite wide swings. For these lakes, a thorough analysis of the data will be required to discriminate between natural variations about a steady state average condition and the emergence of any continuing improvement or deterioration in water quality. As the data base develops for these lakes, the results will be periodically analyzed statistically and interpretations provided that will include the conclusions of any trend through time examination.

A P P E N D I X

The following pages are individual lake reports for lakes enrolled in the 1988 Self-Help program. The reports are arranged alphabetically by lake name. The reports provide the Secchi disc visibility depth and chlorophyll concentration measurements for each date that sampling was conducted during 1988.

In addition, seasonal year end average Secchi disc visibility and chlorophyll values are presented for previous years that these lakes were enrolled in the Self-Help program or for which the Ministry of the Environment collected this data by a lake water quality survey.

The reports also includes information on the physical characteristics of each lake (surface area, maximum depth, volume, shoreline length, watershed area) and shoreline development (cottages, homes, resorts, and per-cent crown land).

LAKE : BAGOT LONG
TWP : BAGOT
COUNTY : RENFREW

ID NUMBER : 18-3490-041-01

WATERSHED AREA :	4.41	sq. km	SHORELINE :	9.00	km.
SURFACE AREA :	56.0	ha.	COTTAGES :	28	
MAX DEPTH :	12.20	m.	RESORTS :	0	
VOLUME :	2.62	mill cu. m.	% CROWN LAND :	70	

CENTER

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
05/20/88	5.6	
07/03/88	3.7	1.8
07/19/88	4.6	0.5
08/02/88	4.6	0.5
08/29/88	3.5	3.0
09/02/88	4.5	0.1
MEAN	4.4	1.2
MAX	5.6	3.0
MIN	3.5	0.1
N	6	5
SD	0.75	1.20

HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1981 *	4.9	
1983 *	3.0	3.3
1986 *	2.7	11.6
1987 *	4.5	1.8
1988	4.4	1.2
MEAN	3.9	4.5
MAX	4.9	11.6
MIN	2.7	1.2
N	5	4
SD	0.98	4.83

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : BAPTISTE
TWP : HERSCHEL
COUNTY : HASTINGS

ID NUMBER : 18-3490-002-01

WATERSHED AREA :	717.00	sq. km	SHORELINE :	62.00 km.
SURFACE AREA :	2125.0	ha.	COTTAGES :	506
MAX DEPTH :	31.40	m.	RESORTS :	15 (113)
VOLUME :	112.73	mill cu. m.	% CROWN LAND :	50

D06 BAY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/12/88	4.2	0.9
06/19/88	4.6	1.4
06/26/88	4.3	1.7
07/03/88	4.3	1.1
07/10/88	4.3	1.7
07/17/88	4.3	1.8
07/24/88	4.3	2.4
08/07/88	4.6	2.3
09/29/88	4.9	0.7
MEAN	4.4	1.6
MAX	4.9	2.4
MIN	4.3	0.7
N	9	9
SD	0.22	0.59

LAVALLEY BAY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/13/88	3.2	1.0
06/20/88	4.1	1.6
07/05/88	3.4	1.6
07/18/88	3.7	2.2
09/29/88	4.9	0.7
MEAN	3.9	1.4
MAX	4.9	2.2
MIN	3.2	0.7
N	5	5
SD	0.67	0.59

PADDY COX BAY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/03/88	5.8	0.5
07/17/88	4.9	1.9
08/07/88	4.3	1.6
08/22/88	4.9	0.6
09/29/88	4.9	1.3
MEAN	5.0	1.2
MAX	5.8	1.9
MIN	4.3	0.5
N	5	5
SD	0.54	0.61

YORK RIVER

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/10/88	4.6	1.2
07/17/88	5.2	1.9
07/24/88	4.9	2.7
08/07/88	4.3	3.8
08/22/88	4.6	1.0
09/29/88	4.9	0.4
MEAN	4.8	1.8
MAX	5.2	3.8
MIN	4.3	0.4
N	6	6
SD	0.32	1.25

LAKE : BAPTISTE
 TWP : HERSCHEL
 COUNTY : HASTINGS

ID NUMBER : 18-3490-002-01

WATERSHED AREA :	717.00	sq. km	SHORELINE :	62.00 km.
SURFACE AREA :	2125.0	ha.	COTTAGES :	506
MAX DEPTH :	31.40	m.	RESORTS :	15 (113)
VOLUME :	112.73	mill cu. m.	% CROWN LAND :	50

HISTORICAL RECORD - COMBINED

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1973 *	3.6	2.9
1974 *	3.4	0.6
1975	3.2	3.2
1976 *	3.2	3.2
1977 **	4.3	2.9
1978	4.3	2.4
1979	4.5	2.7
1980	3.5	3.6
1981	4.0	3.9
1982 *	3.6	2.4
1983	4.2	1.7
1984	3.8	2.4
1985 *	3.4	1.7
1986	4.5	1.5
MEAN	3.8	2.5
MAX	4.5	3.9
MIN	3.2	0.6
N	14	14
SD	0.47	0.90

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : BASS
 TWP : REAR OF LEEDS & LANSLOWNE
 COUNTY : LEEDS

ID NUMBER : 12-0017-001-01

WATERSHED AREA :	14.89	sq. km	SHORELINE :	8.2	km.
SURFACE AREA :	76.89	ha.	COTTAGES :	67	(1975)
MAX DEPTH :	25.9	m.	RESORTS :	0	
VOLUME :	8.67	mill cu. m.	% CROWN LAND :	0	

OUTLET

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/03/88	7.0	0.3
07/17/88	5.9	0.9
07/26/88	5.2	1.7
08/04/88	6.1	0.7
08/14/88	5.3	1.3
08/21/88	4.3	0.9
09/05/88	5.2	0.9
09/25/88	5.8	1.3
MEAN	5.6	1.0
MAX	7.0	1.7
MIN	4.3	0.3
N	8	8
SD	0.80	0.43

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1977	6.6	1.5
1978	5.9	2.2
1979	4.7	2.5
1980	6.5	3.2
1981	5.9	2.5
1982	6.0	1.8
1983	6.5	1.2
1984	6.6	2.5
1985	6.3	1.8
1986 *	5.1	1.8
1987	6.6	1.0
1988	5.6	1.0
MEAN	6.0	1.9
MAX	6.6	3.2
MIN	4.7	1.0
N	12	12
SD	0.63	0.68

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : BAY
TWP : FARADAY
COUNTY : HASTINGS

ID NUMBER : 18-3490-008-01

WATERSHED AREA :	7.1	sq.km	SHORELINE :	6.8	km.
SURFACE AREA :	87.0	ha.	COTTAGES :	48	
MAX DEPTH :	24.0	m.	RESORTS :	1(10)	
VOLUME :	9.00	mill cu. m.	% CROWN LAND :	3	

OFF LEOFKY'S POINT

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
07/10/88	6.4	0.5
07/24/88	6.4	0.4
08/02/88	7.0	0.4
08/14/88	5.8	0.8
08/21/88	5.2	0.7
08/28/88	5.2	1.5
09/05/88	5.2	1.1
09/11/88	4.9	0.7
09/18/88	6.1	0.6
09/25/88	5.8	0.8
MEAN	5.8	0.8
MAX	7.0	1.5
MIN	4.9	0.4
N	10	10
SD	0.68	0.34

HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1977 **	8.0	1.1
1979 *	4.7	1.4
1985 **	6.5	1.0
1987	7.1	0.9
1988	5.8	0.8
MEAN	6.8	1.0
MAX	8.5	1.4
MIN	4.7	0.8
N	5	5
SD	1.57	0.23

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : BEAVER
 TWP : SHEFFIELD
 COUNTY : LENNOX & ADDINGTON

ID NUMBER : 17-0031-001-01

WATERSHED AREA :	534	sq. km	SHORELINE :	15.6	km.
SURFACE AREA :	280	ha.	COTTAGES :	143	
MAX DEPTH :	6.10	m.	RESORTS :	1 (10)	
VOLUME :	9.2	mill cu. m.	% CROWN LAND :	0	

SOUTH END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/12/88	2.4	1.6
07/19/88	2.3	0.8
07/26/88	1.9	1.1
08/04/88	3.4	1.9
08/10/88	1.9	2.7
08/18/88	2.9	6.1
08/30/88	1.9	8.7
09/08/88	2.7	3.2
MEAN	2.4	3.3
MAX	3.4	8.7
MIN	1.9	0.8
N	8	8
SD	0.55	2.76

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	2.8	6.5
1976 *	3.0	7.5
1981 **	3.3	3.3
1982 *	3.1	4.3
1983 **	2.9	2.4
1985 **	2.7	4.6
1986	2.2	6.1
1987	2.3	2.7
1988	2.4	3.3
MEAN	2.7	4.5
MAX	3.3	7.5
MIN	2.2	2.4
N	9	9
SD	0.38	1.81

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : BIG GULL (CLARENDON)

ID NUMBER : 18-3430-003-01

TWP : KENNEBEC, OLDEN, BARRIE, CLARENDON

COUNTY : FRONTENAC

WATERSHED AREA : 137.00 sq.km

SHORELINE : 89.00 km.

SURFACE AREA : 236.0 ha.

COTTAGES : 280 (1974)

MAX DEPTH : 26.00 m.

RESORTS : 10 (156)

VOLUME : 919.70 mill cu. m.

% CROWN LAND : 25

PINNACLE POINT

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/12/88	5.2	1.2
07/03/88	4.6	0.8
07/14/88	4.3	
08/01/88	4.3	1.5
08/07/88	4.0	2.6
08/14/88	4.0	2.9
08/21/88	4.3	1.5
09/05/88	4.3	2.2
MEAN	4.4	1.8
MAX	5.2	2.9
MIN	4.0	0.8
N	8	7
SD	0.39	0.77

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1972 **	5.3	2.4
1975 **	3.4	5.0
1976	4.6	3.2
1977	4.6	3.0
1978	4.6	3.0
1979 *	4.1	2.0
1980 *	3.7	4.1
1982	3.9	2.5
1983	3.7	3.2
1984	4.0	2.9
1985	4.2	2.4
1986	4.1	2.6
1987	4.3	1.8
1988	4.4	1.8
MEAN	4.2	2.9
MAX	5.3	5.0
MIN	3.4	1.8
N	14	14
SD	0.48	0.84

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : BIG RIDEAU ID NUMBER : 18-0033-006-01
 TWP : NORTH & SOUTH BURGESS & ELMSLEY, BASTARD
 COUNTY : LANARK, LEEDS

WATERSHED AREA : 478.90 sq. km SHORELINE : 172.00km.
 SURFACE AREA : 4700 ha. COTTAGES : 1063+11 HOUSES
 MAX DEPTH : 95.00 m. RESORTS : 12 (621)
 VOLUME : 799.97 mill cu. m. % CROWN LAND : 5

BRITON BAY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/06/88	4.4	1.2
07/15/88	4.0	2.2
07/27/88	4.0	2.2
08/03/88	3.8	0.9
08/10/88	4.2	2.7
08/16/88	4.1	2.8
08/25/88	3.8	2.5
08/30/88	4.9	4.2
09/06/88	4.6	2.2
09/15/88	4.1	3.3
09/22/88	4.4	1.2
MEAN	4.2	2.3
MAX	4.9	4.2
MIN	3.8	0.9
N	11	11
SD	0.34	0.97

NEAR ROCKY NARROWS

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/14/88	3.0	
06/19/88	2.7	0.4
MEAN	2.9	0.4
MAX	3.0	0.4
MIN	2.7	0.4
N	2	1
SD	0.22	

HUDSON BAY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/27/88	4.0	1.8
06/21/88	3.4	0.8
06/27/88	3.4	2.7
07/05/88	3.7	2.1
07/22/88	3.4	1.8
08/08/88	3.0	1.8
08/27/88	3.4	2.1
09/13/88	3.0	2.0
MEAN	3.4	1.9
MAX	4.0	2.7
MIN	3.0	0.8
N	8	8
SD	0.33	0.53

BETWEEN SAND ISLAND AND NORTH SHORE

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/12/88	3.4	1.3
06/26/88	3.4	2.2
07/10/88	5.8	1.5
08/01/88	5.2	0.9
08/21/88	4.6	2.1
09/18/88	4.3	3.3
MEAN	4.5	1.9
MAX	5.8	3.3
MIN	3.4	0.9
N	6	6
SD	0.96	0.85

LAKE : BIG RIDEAU

ID NUMBER : 18-0033-006-01

TWP : NORTH & SOUTH BURGESS & ELMSLEY, EASTARD

COUNTY : LANARK, LEEDS

WATERSHED AREA	: 478.90	sq. km	SHORELINE	: 172.00km.
SURFACE AREA	: 4700	ha.	COTTAGES	: 1063+12 HOUSES
MAX DEPTH	: 95.00	m.	RESORTS	: 12 (621)
VOLUME	: 799.97	mill cu. m.	% CROWN LAND	: 5

HISTORICAL RECORD-BRITON BAY

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	4.8	3.0
1977 *	3.3	2.0
1978	4.5	3.0
1979 *	4.2	3.3
1987	4.0	2.8
1988	4.2	2.6
MEAN	4.2	2.7
MAX	4.8	3.3
MIN	3.3	2.0
N	6	6
SD	0.51	0.49

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

HISTORICAL RECORD - COMBINED

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971 **	3.8	2.9
1975 **	4.6	2.9
1976	4.1	3.4
1977	4.2	2.2
1978	4.5	3.0
1979	4.4	3.4
1980 *	3.7	4.7
1981 **	3.3	3.9
1983	2.9	4.7
1984	3.7	3.6
1985	2.7	3.1
1986	4.4	2.7
1987	3.5	3.6
1988	3.4	1.9
MEAN	3.9	3.4
MAX	4.6	4.7
MIN	2.9	1.9
N	14	14
SD	0.51	0.79

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : BLACK
TWP : NORTH BURGESS
COUNTY : LANARK

ID NUMBER : 18-0033-026-01

WATERSHED AREA : 67.1	sq. km	SHORELINE : 20.1	km.
SURFACE AREA : 3.42	ha.	COTTAGES : 188	
MAX DEPTH : 23.0	m.	RESORTS : 1	
VOLUME : 24.84	mill cu. m.	% CROWN LAND : 0	

SOUTHWEST END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/13/88	6.1	0.4
06/27/88	6.4	0.8
07/05/88	3.5	0.4
07/18/88	6.4	1.1
07/25/88	6.6	1.8
08/02/88	6.2	2.9
08/09/88	5.2	14.0
08/20/88	4.4	6.4
08/22/88	4.0	5.1
08/29/88	4.9	2.9
10/13/88	2.9	6.7
MEAN	5.1	3.9
MAX	6.6	14.0
MIN	2.9	0.4
N	11	11
SD	1.30	4.07

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	3.7	6.0
1980 *	3.3	5.7
1983 **	5.8	2.4
1985	4.8	3.3
1986	3.9	3.9
1987	4.2	4.3
1988	5.1	3.9
MEAN	4.4	4.2
MAX	5.8	6.0
MIN	3.3	2.4
N	7	7
SD	0.88	1.27

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : BLACK BAY - PETAWAWA RIVER
 TWP : PETAWAWA
 COUNTY : RENFREW

ID NUMBER : 18-4930-001-01

WATERSHED AREA :	69.93	sq. km	SHORELINE	:	6.7	km.
SURFACE AREA :		ha.	COTTAGES	:	34	(1975)
MAX DEPTH :		m.	RESORTS	:		
VOLUME :		mill cu. m.	% CROWN LAND :			

152 M. OFF NORTH SHORE

HISTORICAL RECORD

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/19/88	3.0	1.3
06/26/88	2.6	0.7
07/03/88	4.1	0.6
07/10/88	3.5	1.4
07/17/88	3.7	0.9
07/26/88	2.9	1.1
08/03/88	3.2	0.9
08/07/88	3.2	1.9
08/16/88	3.2	2.6
08/23/88	2.6	1.2
08/28/88	3.2	1.5
09/11/88	3.5	1.6
09/25/88	4.1	1.7
10/03/88	3.5	1.6
MEAN	3.3	1.4
MAX	4.1	2.6
MIN	2.6	0.6
N	14	14
SD	0.47	0.53

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1986	3.3	2.6
1988	3.3	1.4
MEAN	3.3	2.0
MAX	3.3	2.6
MIN	3.3	1.4
N	2	2
SD	0.00	0.85

LAKE : BLACK DONALD
TWP : BROUGHAM
COUNTY : RENFREW

ID NUMBER : 18-3490-043-01

WATERSHED AREA : 7393.00	sq. km	SHORELINE :	km.
SURFACE AREA : 1550.0	ha.	COTTAGES :	103
MAX DEPTH : 44.00	m.	RESORTS :	2(102)
VOLUME :	mill cu. m.	% CROWN LAND :	20

EAST BAY

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
05/01/88	5.8	0.2
05/15/88	4.6	0.7
05/22/88	4.3	1.0
06/18/88	5.8	0.1
07/03/88	6.4	0.6
07/10/88	6.1	1.0
07/30/88	6.4	0.3
08/05/88	6.4	0.7
08/14/88	6.4	1.0
08/28/88	5.5	1.8
09/18/88	5.8	1.9
MEAN	5.8	0.8
MAX	6.4	1.9
MIN	4.3	0.1
N	11	11
SD	0.73	0.59

HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1978 **	4.2	3.3
1982 *	4.9	2.0
1983	5.6	1.7
1984	5.3	2.9
1985	5.7	1.7
1986	4.9	2.2
1987	5.7	1.8
1988	5.8	0.6
MEAN	5.3	2.2
MAX	5.6	3.3
MIN	4.2	0.6
N	6	8
SD	0.56	0.64

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : BOB'S : LONG BAY
 TWP : BEDFORD
 COUNTY : FRONTENAC

ID NUMBER : 18-0033-010-01

WATERSHED AREA :	sq. km	SHORELINE :	km.
SURFACE AREA :	ha.	COTTAGES :	
MAX DEPTH :	m.	RESORTS :	
VOLUME :	mill cu. m.	% CROWN LAND :	0

LONG BAY

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
07/25/88	5.9	1.5
08/05/88	5.9	1.1
08/12/88	4.3	2.6
MEAN	5.4	1.7
MAX	5.9	2.6
MIN	4.3	1.1
N	3	3
SD	0.92	0.78

HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1975 *	5.3	3.6
1981	3.9	4.7
1982	2.6	4.3
1983	2.2	4.2
1984	3.0	3.2
1985 *	2.8	5.1
1986 *	3.5	3.8
1987 *	4.4	2.4
1988 *	5.4	1.7
MEAN	3.7	3.7
MAX	5.4	5.1
MIN	2.2	1.7
N	9	9
SD	1.16	1.09

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : BOB'S : MUD BAY
 TWP : BEDFORD
 COUNTY : FRONTENAC

ID NUMBER : 18-0033-008-01

WATERSHED AREA :	6.11	sq. km	SHORELINE :	0.00	km.
SURFACE AREA :	202.0	ha.	COTTAGES :	150+15	HOUSES
MAX DEPTH :	7.30	m.	RESORTS :	4	(62)
VOLUME :	6.40	mill cu. m.	% CROWN LAND :	20	

MUD BAY

HISTORICAL RECORD

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/25/88	3.4	0.7
06/24/88	4.3	0.9
07/21/88	2.7	0.9
08/18/88	2.0	9.6
08/30/88	1.7	15.0
09/15/88	2.0	10.0
09/25/88	1.5	6.4
MEAN	2.5	6.2
MAX	4.3	15.0
MIN	1.5	0.7
N	7	7
SD	1.02	5.63

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	4.0	7.6
1976	3.5	6.0
1977	3.8	3.6
1980	3.5	7.4
1981	2.9	6.0
1982	3.2	6.0
1983	2.8	4.1
1984	2.5	5.2
1985	3.1	5.5
1986	2.3	9.2
1987	2.7	3.6
1988	2.5	6.2
MEAN	3.1	5.9
MAX	4.0	9.2
MIN	2.3	3.6
N	12	12
SD	0.55	1.64

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : BOIS DUR, LAC DU - PETAWAWA RIVER ID NUMBER : 18-4930-002-01
 TWP : PETAWAWA
 COUNTY : RENFREW

WATERSHED AREA :	sq. km	SHORELINE :	24.15 km.
SURFACE AREA :	2.42 ha.	COTTAGES :	22
MAX DEPTH :	58.0 m.	RESORTS :	
VOLUME :	10.85 mill cu. m.	% CROWN LAND :	

MID - LAKE

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/13/88	3.8	1.2
08/03/88	4.2	1.2
08/11/88	3.4	2.0
08/23/88	3.8	0.7
08/31/88	4.1	0.9
MEAN	3.9	1.2
MAX	4.2	2.0
MIN	3.4	0.7
N	5	5
SD	0.32	0.49

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1986 *	3.8	1.6
1987	4.0	1.6
1988 *	3.9	1.2
MEAN	3.9	1.5
MAX	4.0	1.6
MIN	3.6	1.2
N	3	3
SD	0.10	0.23

NOTE : * Based on less then 6 readings.
 ** Recreational lakes included.

LAKE : BRULE (WENSLEY)
 TWP : MILLER
 COUNTY : FRONTENAC

ID NUMBER : 18-3490-010-01

WATERSHED AREA :	52.79	sq. km	SHORELINE :	26.60 km.
SURFACE AREA :	571.0	ha.	COTTAGES :	85
MAX DEPTH :	56.40	m.	RESORTS :	2(3)
VOLUME :	126.65	mill cu. m.	% CROWN LAND :	35

VARIOUS LOCATIONS

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
07/23/88	7.6	0.5
08/01/88	7.3	0.6
08/01/88	7.6	0.6
08/14/88	7.6	1.3
08/14/88	7.9	0.8
09/02/88	7.3	0.7
09/02/88	7.5	0.8
09/16/88	7.2	0.8
09/16/88	7.3	0.8
MEAN	7.5	0.8
MAX	7.9	1.3
MIN	7.2	0.5
N	9	9
SD	0.22	0.23

HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1976 **	7.7	2.9
1979	6.5	1.8
1980	6.8	2.1
1981	7.3	1.8
1982	7.5	1.4
1983	8.3	1.1
1984	6.6	2.2
1985	7.2	1.8
1986	7.7	1.6
1987	7.6	1.1
1988	7.5	0.8
MEAN	7.3	1.7
MAX	8.3	2.9
MIN	6.5	0.8
N	11	11
SD	0.54	0.59

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : BUCK : NORTH BAY

ID NUMBER : 12-0004-002-01

TWP : LOUGHBOROUGH, BEDFORD, STORRINGTON

COUNTY : FRONTENAC

WATERSHED AREA : 19.16 sq. km

SHORELINE : 15.00 km.

SURFACE AREA : 276.0 ha.

COTTAGES : 77 (1976)

MAX DEPTH : 32.00 m.

RESORTS : 1 (25)

VOLUME : 27.78 mill cu. m.

% CROWN LAND : 10

NORTH BAY - NORTH END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/22/88	3.8	1.6
06/12/88	5.2	1.3
06/19/88	5.8	0.9
06/24/88	6.1	0.6
07/07/88	7.3	0.5
07/09/88	6.6	0.5
07/16/88	6.1	1.5
07/18/88	5.8	2.5
07/22/88	6.1	1.4
08/10/88	5.2	2.3
08/17/88	4.3	3.4
08/21/88	4.6	2.9
08/30/88	4.0	7.8
09/03/88	3.7	4.1
09/18/88	3.4	5.7
10/08/88	4.0	3.8

MEAN	5.1	2.6
MAX	7.3	7.8
MIN	3.4	0.5
N	16	16
SD	1.18	2.04

NORTH BAY - SOUTH END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/23/88	3.8	2.7
06/26/88	5.2	1.3
07/03/88	6.2	0.6
07/10/88	5.3	0.9
07/17/88	5.8	2.0
07/24/88	4.6	2.9
08/01/88	4.3	1.4
10/08/88	3.8	4.6
MEAN	4.9	2.1
MAX	6.2	4.6
MIN	3.8	0.6
N	8	8
SD	0.90	1.31

LAKE : BUCK : NORTH BAY
 TWP : LOUGHBOROUGH, BEDFORD, STORRINGTON
 COUNTY : FRONTENAC

ID NUMBER : 12-0004-002-01

WATERSHED AREA : 19.16	sq. km	SHORELINE : 15.00 km.
SURFACE AREA : 276.0	ha.	COTTAGES : 77 (1976)
MAX DEPTH : 32.00	m.	RESORTS : 1 (25)
VOLUME : 27.78	mill cu. m.	% CROWN LAND : 10

HISTORICAL RECORD - W&S ENDS

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	4.3	3.9
1976 *	3.2	5.3
1977	3.5	3.5
1978	3.9	5.0
1979 **	3.2	5.9
1980	3.6	4.7
1981	4.1	3.8
1982	3.9	3.2
1983	4.7	2.4
1984	3.9	4.8
1985	3.5	4.9
1986	3.8	5.0
1987	4.3	2.8
1988	5.0	2.4
MEAN	3.9	4.1
MAX	5.0	5.9
MIN	3.2	2.4
N	14	14
SD	0.52	1.13

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : BUCK : SOUTH BAY
 TWP : LOUGHBOROUGH, BEDFORD, STORRINGTON
 COUNTY : FRONTENAC

ID NUMBER : 12-0004-004-01

WATERSHED AREA : 62.14	sq. km	SHORELINE : 30.9	km.
SURFACE AREA : 467.4	ha.	COTTAGES : 181	(1975)
MAX DEPTH : 39	m.	RESORTS : 1(4)	
VOLUME : 61.0	mill cu. m.	% CROWN LAND : 0	

SOUTH BAY - OFF PORCUPINE ISLAND

HISTORICAL RECORD

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
04/17/88	4.9	2.0
05/01/88	4.9	3.8
05/23/88	4.4	2.5
05/29/88	4.6	2.2
06/05/88	5.0	1.7
06/12/88	5.0	1.6
06/18/88	5.1	1.3
06/25/88	5.5	1.6
07/03/88	5.5	1.1
07/10/88	6.2	0.9
07/18/88	6.1	1.2
07/23/88	5.3	1.3
07/25/88	5.2	3.0
07/28/88	5.3	2.6
08/02/88	5.2	1.5
08/07/88	5.9	1.9
08/14/88	5.6	1.3
08/21/88	6.2	1.8
08/29/88	6.1	1.4
09/05/88	5.3	4.1
09/11/88	5.0	1.2
09/18/88	5.8	2.1
10/01/88	5.5	1.4
10/10/88	5.9	2.2
10/15/88	5.5	2.4
10/30/88	6.6	2.9
11/07/88	5.5	1.4
11/20/88	6.1	3.5
11/27/88	6.1	3.7
MEAN	5.5	2.1
MAX	6.6	4.1
MIN	4.4	0.9
N	29	29
SD	0.53	0.89

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	5.2	2.9
1976	5.8	3.5
1979 **	4.3	3.5
1986	4.5	3.0
1987	5.2	2.5
1988	5.5	2.1
MEAN	5.1	2.9
MAX	5.8	3.5
MIN	4.3	2.1
N	6	6
SD	0.58	0.55

NOTE : * Based on less then 6 readings.

** Recreational lakes included.

LAKE : BURRIDGE
TWP : BEDFORD
COUNTY : FRONTENAC

ID NUMBER : 18-0033-014-01

WATERSHED AREA : 4.53	sq. km	SHORELINE : 6.90	km.
SURFACE AREA : 81.0	ha.	COTTAGES : 47 (1974)	
MAX DEPTH : 16.20	m.	RESORTS :	
VOLUME : 5.89	mill cu. m.	% CROWN LAND : 0	

VARIOUS LOCATIONS

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/05/88	6.1	0.2
05/12/88	6.1	0.1
06/05/88	5.2	0.1
07/04/88	4.0	0.8
07/11/88	3.4	0.2
07/16/88	3.4	0.8
07/24/88	4.0	0.9
08/07/88	4.3	1.5
08/22/88	3.4	1.2
08/24/88	3.7	2.0
09/05/88	4.6	2.0
09/11/88	4.9	1.3
09/17/88	4.9	0.9
09/23/88	4.3	1.7
MEAN	4.4	1.0
MAX	6.1	2.0
MIN	3.4	0.1
N	14	14
SD	0.91	0.67

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1980	4.5	3.6
1981	4.4	2.5
1982	4.7	1.1
1983 **	5.6	1.8
1984	4.1	3.0
1985	4.9	2.1
1986	4.6	2.6
1987	4.5	2.2
1988	4.6	0.8
MEAN	4.7	2.2
MAX	5.6	3.6
MIN	4.1	0.8
N	9	9
SD	0.42	0.86

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : CASHEL
TWP : CASHEL
COUNTY : HASTINGS

ID NUMBER : 17-0021-002-01

WATERSHED AREA : 28.59	sq. km	SHORELINE : 10.2	km.
SURFACE AREA : 168	ha.	COTTAGES : 39	
MAX DEPTH : 27.4	m.	RESORTS : 0	
VOLUME : 13.10	mill cu. m.	% CROWN LAND : 82	

SOUTH END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/14/88	3.8	0.9
05/23/88	4.6	1.1
06/05/88	4.0	1.3
06/11/88	4.6	0.3
05/06/88	4.3	1.6
06/27/88	3.7	0.6
07/02/88	5.2	0.4
07/09/88	5.2	0.5
07/22/88	5.8	0.2
07/30/88	4.6	0.2
08/06/88	4.3	0.9
08/28/88	4.3	1.4
09/19/88	4.6	0.3
09/23/88	4.9	0.6
MEAN	4.6	0.7
MAX	5.8	1.6
MIN	3.7	0.2
N	14	14
SD	0.58	0.47

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1977 **	5.2	1.5
1980	5.8	2.1
1981	5.7	2.1
1985 **	4.4	1.6
1987	4.9	1.3
1988	4.6	0.8
MEAN	5.1	1.6
MAX	5.8	2.1
MIN	4.4	0.8
N	6	6
SD	0.57	0.50

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : CHARLESTON

ID NUMBER : 12-0017-002-01

TWP : REAR OF LEEDS & LANSLOWNE, FRONT & REAR OF YONGE

COUNTY : LEEDS

WATERSHED AREA : 300.00 sq. km

SHORELINE : 152.00km.

SURFACE AREA : 2517.0 ha.

COTTAGES : 627 +63 HOUSES

MAX DEPTH : 91.00 m.

RESORTS : 3(40)+(227) PR

VOLUME : 437.00 mill cu. m.

% CROWN LAND : 20

GOOSE ISLAND

HISTORICAL RECORD

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/01/88	3.7	2.0
05/08/88	3.7	4.2
05/15/88	3.0	1.5
05/23/88	4.6	1.3
05/29/88	4.3	1.6
06/05/88	3.0	2.8
06/12/88	3.0	2.6
06/19/88	3.7	2.6
06/26/88	3.4	3.0
07/03/88	4.0	1.0
07/10/88	3.7	2.6
07/17/88	4.3	1.6
07/24/88	4.3	2.5
08/01/88	3.0	0.6
08/07/88	2.4	1.3
08/14/88	3.4	2.7
08/21/88	4.3	1.9
08/28/88	3.7	5.7
09/05/88	4.0	2.6
09/11/88	3.4	3.0
09/18/88	4.6	3.5
09/25/88	4.9	1.9
10/02/88	4.6	1.6
MEAN	3.8	2.4
MAX	4.9	5.7
MIN	2.4	0.6
N	23	23
SD	0.65	1.12

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1978	3.9	2.9
1979	4.2	3.2
1980	4.2	3.4
1981	3.6	5.0
1982	4.1	3.4
1983	4.4	2.5
1984	3.4	3.8
1985	4.2	2.3
1986	3.5	3.9
1987	3.9	2.7
1988	3.8	2.4
MEAN	3.9	3.2
MAX	4.4	5.0
MIN	3.4	2.3
N	11	11
SD	0.33	0.80

LAKE : CHARLESTON

ID NUMBER : 12-0017-002-01

TWP : REAR OF LEEDS & LANSDOWNE, FRONT & REAR OF YONGE

COUNTY : LEEDS

WATERSHED AREA : 300.00 sq. km

SURFACE AREA : 2517.0 ha.

MAX DEPTH : 91.00 m.

VOLUME : 437.00 mill cu. m.

SHORELINE : 152.00km.

COTTAGES : 627 +63 HOUSES

RESORTS : 3(40)+(227) PR

% CROWN LAND : 20

WEBSTER'S BAY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/01/88	3.7	1.7
05/08/88	3.4	4.4
05/15/88	3.0	1.5
05/23/88	4.9	1.6
05/29/88	4.3	1.8
06/05/88	3.4	2.9
06/12/88	3.0	2.7
06/19/88	4.0	2.4
06/26/88	3.7	3.0
07/03/88	4.3	0.7
07/10/88	3.7	1.8
07/17/88	4.9	2.4
07/24/88	4.9	3.0
08/01/88	3.0	0.5
08/07/88	2.7	2.5
08/14/88	3.0	3.1
08/21/88	4.0	1.6
08/28/88	3.7	3.8
09/05/88	4.0	2.7
09/11/88	3.7	3.0
09/18/88	4.6	3.3
09/25/88	5.2	2.1
10/02/88	4.6	1.4
MEAN	3.9	2.3
MAX	5.2	4.4
MIN	2.7	0.5
N	23	23
SD	0.72	0.94

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1976	3.6	3.3
1978	3.9	3.4
1979	4.4	3.2
1980	4.4	3.9
1981	3.7	5.2
1982	4.4	3.8
1983	4.5	2.2
1984	3.5	2.9
1985	4.5	2.2
1986	3.4	3.6
1987	3.6	3.2
1988	3.9	2.3
MEAN	4.0	3.3
MAX	4.5	5.2
MIN	3.4	2.2
N	12	12
SD	0.43	0.85

LAKE : CHARLESTON

ID NUMBER : 12-0017-002-01

TWP : REAR OF LEEDS & LANSDOWNE, FRONT & REAR OF YONGE

COUNTY : LEEDS

WATERSHED AREA : 300.00 sq.km

SHORELINE : 152.00km.

SURFACE AREA : 2517.0 ha.

COTTAGES : 627 +63 HOUSES

MAX DEPTH : 91.00 m.

RESORTS : 3(40)+(227) PR

VOLUME : 437.00 mill cu. m.

% CROWN LAND : 20

WESTERN WATER

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/01/88	3.0	1.4
05/08/88	3.0	3.9
05/15/88	3.0	1.2
05/23/88	4.3	1.8
05/29/88	4.3	1.9
06/05/88	3.0	2.6
06/12/88	2.7	2.9
06/19/88	4.0	2.5
06/26/88	3.7	2.8
07/03/88	4.6	0.8
07/10/88	4.0	2.4
07/17/88	4.6	3.2
07/24/88	4.9	3.4
08/01/88	3.3	0.5
08/07/88	3.0	2.3
08/14/88	3.7	1.2
08/21/88	4.0	1.6
08/28/88	4.0	2.8
09/05/88	4.6	3.2
09/11/88	3.7	2.8
09/18/88	4.0	3.0
09/25/88	4.9	2.1
10/02/88	4.6	1.5
MEAN	3.9	2.3
MAX	4.9	3.9
MIN	2.7	0.5
N	23	23
SD	0.68	0.89

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971 **	3.2	3.9
1978	4.0	3.0
1979	4.5	4.7
1980	4.3	4.2
1981	3.8	5.6
1982	4.5	3.9
1983	4.8	2.9
1984	3.3	2.7
1985	4.6	2.1
1986	3.5	4.0
1987	3.7	3.0
1988	3.9	2.3
MEAN	4.0	3.5
MAX	4.8	5.6
MIN	3.2	2.1
N	12	12
SD	0.53	1.04

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : CHIPPEGO
 TWP : HINCHINBROOKE
 COUNTY : FRONTENAC

ID NUMBER : 17-0035-002-01

WATERSHED AREA : 11.90	sq. km	SHORELINE : 7.90	km.
SURFACE AREA : 103.0	ha.	COTTAGES : 57 (1983)	
MAX DEPTH : 8.30	m.	RESORTS : 1	
VOLUME : 6.85	mill cu. m.	% CROWN LAND : 0	

SOUTH END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/02/88	3.1	3.1
06/09/88	3.4	2.9
06/18/88	3.7	2.6
06/27/88	3.7	1.1
07/03/88	3.8	0.7
07/17/88	3.5	0.3
07/27/88	4.0	2.7
08/02/88	4.0	1.0
08/12/88	3.8	1.5
08/25/88	3.5	1.8
08/30/88	3.8	1.5
09/09/88	3.5	1.2
09/22/88	3.7	3.5
09/29/88	4.0	3.3
10/11/88	3.5	4.6
MEAN	3.7	2.1
MAX	4.0	4.6
MIN	3.1	0.3
N	15	15
SD	0.25	1.22

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1979	3.1	6.0
1980	3.1	7.8
1981	3.2	5.6
1982	3.1	4.1
1983 **	3.2	3.9
1984	3.3	5.2
1985	3.6	6.1
1986	3.2	5.9
1987	3.4	3.6
1988	3.6	1.9
MEAN	3.3	5.0
MAX	3.6	7.8
MIN	3.1	1.9
N	10	10
SD	0.19	1.66

NOTE : * Based on less then 6 readings.
 ** Recreational lakes included.

LAKE : CHRISTIE
 TWP : SHERBROOKE, BATHURST
 COUNTY : LANARK

ID NUMBER : 18-0033-015-01

WATERSHED AREA :	416	sq. km	SHORELINE :	27.4	km.
SURFACE AREA :	646	ha.	COTTAGES :	265	
MAX DEPTH :	18.3	m.	RESORTS :	5 (20)	
VOLUME :	55.17	mill cu. m.	% CROWN LAND :	0	

CENTER

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/07/88	4.9	1.7
05/14/88	6.4	0.5
05/21/88	6.1	1.0
05/29/88	6.1	2.0
06/04/88	5.5	1.9
06/12/88	5.8	0.5
06/18/88	5.8	0.9
06/25/88	5.2	1.7
07/02/88	5.2	0.9
07/17/88	5.8	0.7
07/24/88	5.8	2.0
08/07/88	5.8	3.2
09/11/88	3.0	8.5
09/18/88	3.0	8.6
10/09/88	3.4	7.4
MEAN	5.2	2.8
MAX	6.4	8.6
MIN	3.0	0.5
N	15	15
SD	1.13	2.90

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971	7.6	0.8
1975 **	4.5	4.7
1976	4.8	4.2
1977	4.4	5.8
1978	4.8	4.2
1979	4.4	6.1
1980	4.7	5.0
1981	3.4	4.8
1982	4.2	2.9
1985	4.6	5.5
1986	4.6	4.2
1987	4.4	4.5
1988	5.2	2.6
MEAN	4.7	4.3
MAX	7.6	6.1
MIN	3.4	0.8
N	13	13
SD	0.96	1.42

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : CROSBY (BIG CROSBY)
 TWP : NORTH CROSBY
 COUNTY : LEEDS

ID NUMBER : 18-0033-016-01

WATERSHED AREA :	26.60	sq. km	SHORELINE :	17.70 km.
SURFACE AREA :	263.0	ha.	COTTAGES :	158 (1974)
MAX DEPTH :	19.00	m.	RESORTS :	0
VOLUME :	21.68	mill cu. m.	% CROWN LAND :	0

CENTER

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/15/88	3.4	3.8
05/23/88	3.7	2.0
05/28/88	5.2	0.4
06/12/88	5.6	0.7
06/19/88	4.0	2.6
07/03/88	4.0	0.8
07/10/88	5.2	1.3
08/02/88	6.4	0.7
08/14/88	4.0	1.5
09/05/88	4.6	3.6
09/25/88	5.2	2.7
MEAN	4.7	1.8
MAX	6.4	3.8
MIN	3.4	0.4
N	11	11
SD	0.95	1.20

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1974 **	3.7	5.0
1975 **	4.1	5.4
1979 *	3.4	7.1
1980	4.0	3.9
1981	4.4	3.8
1982	4.2	3.2
1983	4.0	2.2
1984	4.5	2.7
1985	4.3	3.9
1986 **	3.5	7.2
1987	4.2	2.8
1988	4.7	1.8
MEAN	4.1	4.1
MAX	4.7	7.2
MIN	3.4	1.8
N	12	12
SD	0.39	1.77

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : CROWE
TWP : MARMORA
COUNTY : HASTINGS

ID NUMBER : 17-0021-003-01

WATERSHED AREA :	1444.00	sq. km	SHORELINE :	21.00 km.
SURFACE AREA :	876.0	ha.	COTTAGES :	328
MAX DEPTH :	15.80	m.	RESORTS :	6 (548)
VOLUME :	49.38	mill cu. m.	% CROWN LAND :	0

REGULAR LOCATION

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/03/88	2.6	1.1
07/17/88	3.4	1.7
08/01/88	3.3	1.7
08/07/88	3.0	2.5
08/14/88	2.4	2.4
08/22/88	2.7	2.0
08/29/88	2.7	3.5
MEAN	2.9	2.1
MAX	3.4	3.5
MIN	2.4	1.1
N	7	7
SD	0.37	0.77

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1972 **	3.8	2.5
1974	4.7	1.8
1975 *	4.7	4.1
1976	4.7	5.0
1977 *	3.9	4.5
1978	2.4	3.2
1979	2.5	5.0
1980	3.0	5.0
1981	2.9	3.0
1982	3.2	2.4
1983	2.9	2.4
1984 *	2.7	4.8
1985	2.5	4.1
1986	2.4	3.5
1987	2.6	1.9
1988	2.9	2.1
MEAN	3.2	3.5
MAX	4.7	5.0
MIN	2.4	1.8
N	16	16
SD	0.85	1.19

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : DAVERN
 TWP : SOUTH SHERBROOKE
 COUNTY : LANARK

ID NUMBER : 18-0033-033-01

WATERSHED AREA :	2.40	sq. km	SHORELINE :	4.10	km.
SURFACE AREA :	52.0	ha.	COTTAGES :	17	
MAX DEPTH :	25.10	m.	RESORTS :	1 (15)	
VOLUME :	6.01	mill cu. m.	% CROWN LAND :	0	

VARIOUS LOCATIONS

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/22/88	5.5	1.9
07/01/88	5.8	2.5
07/24/88	6.4	3.3
08/15/88	5.2	1.6
08/18/88	5.5	0.9
09/07/88	4.6	1.1
09/25/88	4.9	1.4
MEAN	5.4	1.8
MAX	6.4	3.3
MIN	4.6	0.9
N	7	7
SD	0.59	0.84

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1980 **	5.1	1.7
1981 **	5.0	2.9
1982	5.0	1.7
1983	5.7	2.0
1984	5.2	2.5
1985	5.7	1.6
1986	5.4	2.0
1987	5.4	2.0
1988	5.4	1.8
MEAN	5.3	2.0
MAX	5.7	2.9
MIN	5.0	1.6
N	9	9
SD	0.27	0.42

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : DEMPSEYS (VIRGIN)
 TWP : BAGOT, BLYTHFIELD
 COUNTY : RENFREW

ID NUMBER : 18-3490-014-01

WATERSHED AREA : 13.80	sq.km	SHORELINE :	km.
SURFACE AREA : 46.0	ha.	COTTAGES :	
MAX DEPTH :	m.	RESORTS :	
VOLUME :	mill cu. m.	% CROWN LAND :	35

MIDWAY BETWEEN POINT AND ISLAND

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/14/88	5.0	0.9
07/05/88	6.0	1.2
07/20/88	5.5	1.3
08/07/88	5.5	3.4
09/07/88	5.5	5.3
09/25/88	3.7	4.9
10/16/88	5.5	3.8
MEAN	5.2	3.0
MAX	6.0	5.3
MIN	3.7	0.9
N	7	7
SD	0.74	1.84

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1980	4.2	3.6
1982	5.5	1.8
1983	5.7	2.0
1984	5.0	3.6
1985	5.3	2.5
1986	5.5	2.5
1987	4.8	2.1
1988	5.2	3.0
MEAN	5.2	2.6
MAX	5.7	3.6
MIN	4.2	1.8
N	8	8
SD	0.48	0.70

LAKE : DESERT
TWP : BEDFORD, LOUGHBOROUGH
COUNTY : FRONTENAC

ID NUMBER : 12-0004-009-01

WATERSHED AREA : 97.00	sq. km	SHORELINE : 28.00 km.
SURFACE AREA : 382.0	ha.	COTTAGES : 71 (1976)
MAX DEPTH : 68.00	m.	RESORTS : 3 (95)
VOLUME : 85.50	mill cu. m.	% CROWN LAND : 0

DEYD'S BAY

SOUTH BAY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/15/88	3.4	4.3
05/23/88	4.0	2.6
05/29/88	4.6	2.3
06/12/88	4.3	1.8
06/19/88	4.0	1.4
07/03/88	4.9	0.6
07/10/88	5.2	0.7
07/24/88	4.9	1.7
08/07/88	5.2	2.3
08/15/88	4.3	2.4
09/05/88	4.6	1.5
09/18/88	4.6	1.4
MEAN	4.5	1.9
MAX	5.2	4.3
MIN	3.4	0.6
N	12	12
SD	0.53	0.98

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/14/88	3.5	1.5
06/24/88	4.4	1.8
06/30/88	4.6	1.2
07/05/88	4.6	1.2
07/22/88	5.2	1.3
08/02/88	4.9	1.0
08/10/88	4.3	1.4
09/18/88	4.0	1.4
10/01/88	4.6	0.9
MEAN	4.5	1.3
MAX	5.2	1.8
MIN	3.5	0.9
N	9	9
SD	0.50	0.27

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	5.9	3.9
1977	4.9	2.5
1978	5.5	2.5
1979	4.5	3.0
1980	4.6	3.4
1981	4.6	3.4
1982	4.9	2.0
1983	5.2	2.1
1984	5.0	3.3
1985	4.4	3.0
1986	4.5	2.9
1987	4.5	2.6
1988	4.5	1.6
MEAN	4.8	2.8
MAX	5.9	3.9
MIN	4.4	1.6
N	13	13
SD	0.46	0.65

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : DEVIL
TWP : BEDFORD
COUNTY : FRONTENAC

ID NUMBER : 12-0004-010-01

WATERSHED AREA : 174.00	sq.km	SHORELINE : 36.20 km.
SURFACE AREA : 1061.0	ha.	COTTAGES : 220 + 3 HOUSE
MAX DEPTH : 45.00	m.	RESORTS : 4 (S1)
VOLUME : 152.39	mill cu. m.	% CROWN LAND : 20

HAYS BAY

SAMPLE DATE (MM/DD/YY)	SECTOR DEPTH (METERS)	CHLOROPHYLL A UG/L
06/08/88	4.9	1.6
06/09/88	5.0	1.6
06/09/88	5.0	1.7
07/10/88	5.0	0.8
07/14/88	5.0	1.5
08/11/88	5.1	1.7
08/11/88	5.1	1.1
10/10/88	5.0	1.7
MEAN	5.1	1.6
MAX	5.1	1.7
MIN	4.9	0.8
N	8	8
SD	0.14	0.51

BUDE BAY

SAMPLE DATE (MM/DD/YY)	SECTOR DEPTH (METERS)	CHLOROPHYLL A UG/L
06/08/88	4.7	1.7
06/09/88	5.0	1.6
06/09/88	5.0	1.6
07/10/88	5.0	0.4
07/14/88	5.0	1.4
08/11/88	5.0	1.5
08/11/88	5.1	1.1
10/10/88	5.0	1.5
MEAN	5.0	1.5
MAX	5.1	1.7
MIN	4.7	0.4
N	8	8
SD	0.38	0.64

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECTOR DEPTH (METERS)	CHLOROPHYLL A UG/L
1974 **	5.6	2.4
1975 **	5.1	3.2
1976	5.2	2.2
1977	4.8	2.5
1978	5.3	1.9
1979	4.5	2.7
1980 +	4.6	2.7
1981 **	5.3	2.4
1982	5.7	2.7
1983	5.7	2.2
1984	5.2	3.3
1985 **	5.4	2.1
1986	5.2	2.5
1987	4.9	2.3
1988	5.4	1.5
MEAN	5.3	2.6
MAX	5.7	3.4
MIN	4.5	1.5
N	15	15
SD	0.43	0.49

LAKE : DIAMOND
TWP : HERSHEL
COUNTY : HASTINGS

ID NUMBER : 18-3490-015-01

WATERSHED AREA :	32.70	sq. km	SHORELINE :	10.00 km.
SURFACE AREA :	150.0	ha.	COTTAGES :	65 + 16 HOUSES
MAX DEPTH :	23.80	m.	RESORTS :	1 (6)
VOLUME :	12.48	mill cu. m.	% CROWN LAND :	60

ACROSS FROM CLIFFS

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
06/19/88	5.8	1.7
07/03/88	6.1	1.0
07/15/88	6.1	0.8
07/18/88	5.8	1.1
08/01/88	5.8	0.8
08/28/88	4.9	0.7
09/18/88	5.2	0.8
10/01/88	5.2	0.9
MEAN	5.6	1.0
MAX	6.1	1.7
MIN	4.9	0.7
N	8	8
SD	0.45	0.32

HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1977 **	5.4	1.7
1978	5.1	1.5
1979 *	4.9	2.0
1980	4.3	2.0
1981	5.3	1.5
1982 *	5.2	1.8
1983 **	5.9	1.5
1984 **	5.1	2.1
1985 **	5.5	2.5
1986	5.1	2.4
1987	4.9	1.6
1988	5.6	1.0
MEAN	5.2	1.8
MAX	5.9	2.5
MIN	4.3	1.0
N	12	12
SD	0.41	0.42

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : DICKEY : NORTH BASIN
 TWP : LAKE
 COUNTY : HASTINGS

ID NUMBER : 17-0021-004-01

WATERSHED AREA :	49.00	sq. km	SHORELINE :	4.59	km.
SURFACE AREA :	54.0	ha.	COTTAGES :	73	
MAX DEPTH :	12.20	m.	RESORTS :	0	
VOLUME :	9.69	mill cu. m.	% CROWN LAND :	0	

NORTH BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/08/88	3.2	1.0
05/23/88	3.6	1.4
06/05/88	4.5	1.4
07/04/88	3.6	0.7
07/11/88	3.9	1.3
07/18/88	4.3	1.3
07/26/88	4.3	9.6
08/04/88	4.5	1.1
08/09/88	4.6	4.0
08/16/88	5.0	2.4
08/23/88	4.4	1.2
08/30/88	4.0	1.6
09/06/88	4.0	1.6
MEAN	4.1	2.2
MAX	5.0	9.6
MIN	3.2	0.7
N	13	13
SD	0.49	2.37

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971 *	4.4	1.5
1972	4.3	2.1
1973	4.3	2.2
1976 **	5.0	1.7
1980 **	4.5	2.0
1981	5.2	2.0
1982	4.6	1.8
1983	4.2	1.7
1984 *	4.8	2.9
1985	4.1	2.0
1986	3.6	2.2
1987	3.9	2.0
1988	4.1	2.2
MEAN	4.4	2.0
MAX	5.2	2.9
MIN	3.6	1.5
N	13	13
SD	0.44	0.34

NOTE : * Based on less then 6 readings.

** Recreational lakes included.

LAKE : DICKEY : SOUTH BASIN
 TWP : LAKE
 COUNTY : HASTINGS

ID NUMBER : 17-0021-005-01

WATERSHED AREA : 5.46	sq. km	SHORELINE : 12.55 km.
SURFACE AREA : 149.0	ha.	COTTAGES : 24
MAX DEPTH : 46.30	m.	RESORTS : 0
VOLUME : 26.74	mill cu. m.	% CROWN LAND : 0

SOUTH BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/08/88	4.4	0.6
05/23/88	4.9	1.1
06/05/88	5.2	1.3
07/04/88	4.6	1.2
07/11/88	4.2	1.2
07/18/88	4.5	1.2
07/26/88	5.1	1.2
08/04/88	5.1	0.7
08/09/88	5.3	1.4
08/16/88	5.3	1.6
08/23/88	4.9	1.3
08/30/88	4.5	1.5
09/06/88	4.5	1.6
MEAN	4.8	1.2
MAX	5.3	1.6
MIN	4.2	0.6
N	13	13
SD	0.38	0.30

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971 *	4.1	2.2
1972	4.5	2.0
1973	4.8	1.7
1976 **	5.2	1.5
1980	5.1	2.0
1981	5.4	1.8
1982	5.2	1.8
1983	4.5	1.2
1984	5.0	2.9
1985	4.6	1.9
1986	4.2	2.1
1987	4.3	1.8
1988	4.8	1.2
MEAN	4.7	1.9
MAX	5.4	2.9
MIN	4.1	1.2
N	13	13
SD	0.42	0.44

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : DOG : NORTH BASIN
TWP : STORRINGTON
COUNTY : FRONTENAC

ID NUMBER : 12-0004-011-01

WATERSHED AREA :	62.00	sq. km	SHORELINE :	23.00 km.
SURFACE AREA :	471.0	ha.	COTTAGES :	105
MAX DEPTH :	49.70	m.	RESORTS :	2 (78)
VOLUME :	39.90	mill cu. m.	% CROWN LAND :	0

SOUTHEAST OF ST. HELENA ISLAND

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
04/20/88		11.0
04/25/88	2.8	4.2
05/24/88	2.3	1.2
05/29/88	1.8	5.8
06/08/88	2.9	5.6
06/13/88	2.7	2.1
08/02/88	2.4	8.2
MEAN	2.5	5.4
MAX	2.9	11.0
MIN	1.8	1.2
N	6	7
SD	0.41	3.40

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	2.8	13.0
1979	1.9	14.1
1980	1.2	34.2
1983	2.4	8.6
1984 **	2.1	17.9
1987 *	2.6	8.5
1988	2.5	5.4
MEAN	2.2	14.5
MAX	2.8	34.2
MIN	1.2	5.4
N	7	7
SD	0.54	9.62

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : EAGLE
 TWP : OLDEN, HINCHINBROOKE
 COUNTY : FRONTENAC

ID NUMBER : 18-0033-019-01

WATERSHED AREA :	40.10	sq. km	SHORELINE :	41.40 km.
SURFACE AREA :	665.0	ha.	COTTAGES :	135 + 1 HOUSE
MAX DEPTH :	31.10	m.	RESORTS :	2
VOLUME :	67.20	mill cu. m.	% CROWN LAND :	5

NORTH END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/06/88	3.3	4.8
05/14/88	3.4	3.4
05/21/88	3.8	4.0
05/30/88	5.2	2.2
06/19/88	4.3	1.2
06/19/88	4.7	1.1
06/24/88	6.1	2.5
07/03/88	5.8	1.4
07/13/88	6.1	2.1
07/17/88	5.2	0.8
07/26/88	5.8	2.9
08/07/88	4.9	1.5
08/22/88	4.9	1.8
09/18/88	6.1	3.3
09/25/88	6.1	4.0
MEAN	5.0	2.5
MAX	6.1	4.8
MIN	3.3	0.8
N	15	15
SD	0.99	1.22

NORTHWEST - NORTH SIDE OPEONGO PT.

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/24/88	4.1	1.1
05/30/88	5.0	1.7
06/05/88	5.0	2.8
06/13/88	5.6	2.6
06/20/88	5.3	2.0
07/04/88	5.6	1.3
08/02/88	5.6	1.8
08/08/88	5.9	2.4
08/22/88	5.3	2.4
09/06/88	6.2	3.7
09/19/88	6.2	2.4
MEAN	5.4	2.2
MAX	6.2	3.7
MIN	4.1	1.1
N	11	11
SD	0.61	0.73

LAKE : EAGLE
 TWP : OLDEN, HINCHINBROOKE
 COUNTY : FRONTENAC

ID NUMBER : 18-0033-019-01

WATERSHED AREA : 40.10 sq. km
 SURFACE AREA : 665.0 ha.
 MAX DEPTH : 31.10 m.
 VOLUME : 67.20 mill cu. m.

SHORELINE : 41.40 km.
 COTTAGES : 135 + 1 HOUSE
 RESORTS : 2
 % CROWN LAND : 5

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	5.1	3.6
1977	4.3	2.0
1979	4.7	3.3
1980	4.8	4.3
1981 **	4.5	3.0
1982	4.9	2.7
1983	5.3	2.5
1984	5.9	3.4
1985	5.4	2.4
1986	5.4	2.9
1987	5.3	2.9
1988	5.2	2.4
MEAN	5.1	2.9
MAX	5.9	4.3
MIN	4.3	2.0
N	12	12
SD	0.45	0.63

NOTE : * Based on less then 6 readings.

** Recreational lakes included.

LAKE : EAST
 TWP : ATHOL
 COUNTY : PRINCE EDWARD

ID NUMBER : 06-0172-001-01

WATERSHED AREA :	71	sq.km	SHORELINE :	km.
SURFACE AREA :	1255	ha.	COTTAGES :	
MAX DEPTH :	7.6	m.	RESORTS :	
VOLUME :		mill cu. m.	% CROWN LAND :	1

CENTRE

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
08/22/88	2.7	4.1
08/25/88	2.0	6.3
08/30/88	1.4	6.7
08/30/88	1.5	9.1
09/05/88	2.0	5.1
09/07/88	1.5	4.9
09/12/88	1.7	5.2
09/14/88	1.4	6.0
09/19/88	1.8	6.0
09/21/88	1.7	6.3
09/26/88	1.4	8.2
09/28/88	1.8	7.9
MEAN	1.7	6.3
MAX	2.7	9.1
MIN	1.4	4.1
N	12	12
SD	0.38	1.47

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1980 **	1.8	4.9
1985 *	0.9	9.0
1988	1.7	6.3
MEAN	1.5	6.7
MAX	1.8	9.0
MIN	0.9	4.9
N	3	3
SD	0.49	2.08

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : FARREN (FARRELL)
 TWP : SOUTH SHERBROOKE
 COUNTY : LANARK

ID NUMBER : 18-0033-020-01

WATERSHED AREA :	12.25	sq. km	SHORELINE :	9.50	km.
SURFACE AREA :	173.0	ha.	COTTAGES :	101	(1974)
MAX DEPTH :	21.30	m.	RESORTS :	1	(6)
VOLUME :	14.32	mill cu. m.	% CROWN LAND :	0	

EAST END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/23/88	5.2	0.9
06/22/88	5.2	1.0
07/04/88	6.1	0.9
07/20/88	5.5	1.3
08/01/88	4.9	1.0
08/11/88	5.2	1.9
08/19/88	4.1	0.7
09/12/88	4.0	1.1
10/17/88	3.4	2.0
MEAN	4.8	1.2
MAX	6.1	2.0
MIN	3.4	0.7
N	9	9
SD	0.85	0.46

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	4.7	3.0
1980 **	5.2	3.3
1981	5.7	2.4
1982	5.0	2.0
1983	4.9	1.8
1984	4.8	2.9
1985	5.0	1.8
1986 *	4.1	2.7
1987	5.0	2.5
1988	4.8	1.2
MEAN	4.9	2.4
MAX	5.7	3.3
MIN	4.1	1.2
N	10	10
SD	0.40	0.65

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : GANANOQUE
 TWP : REAR & FRONT OF LEEDS LANSLOWNE
 COUNTY : LEEDS

ID NUMBER : 12-0017-008-01

WATERSHED AREA :	424.40	sq. km	SHORELINE	: 33.17 km.
SURFACE AREA :	617.0	ha.	COTTAGES	: 111
MAX DEPTH :	23.77	m.	RESORTS	: 2 (19)
VOLUME :	42.82	mill cu. m.	% CROWN LAND	: 3

NEAR TURTLE ISLAND

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
04/07/88	2.9	1.4
05/29/88	2.6	2.0
07/12/88	2.7	7.2
08/02/88	2.8	2.7
08/24/88	2.7	3.4
08/30/88	2.9	14.0
09/06/88	2.7	7.0
09/26/88	2.6	3.9
10/05/88	2.8	1.8
MEAN	2.7	4.8
MAX	2.9	14.0
MIN	2.6	1.4
N	9	9
SD	0.12	4.04

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1977	2.2	4.7
1978	3.0	7.1
1979	3.2	4.7
1980	1.8	8.0
1981 **	3.1	6.9
1982 **	2.6	5.2
1983 **	3.2	4.5
1984 **	4.1	7.4
1985	2.6	7.6
1986	2.8	5.7
1987	2.7	5.7
1988	2.7	4.8
MEAN	2.8	6.0
MAX	4.1	8.0
MIN	1.8	4.5
N	12	12
SD	0.57	1.29

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : GREEN
TWP : BROUGHAM
COUNTY : RENFREW

ID NUMBER : 18-3490-021-01

WATERSHED AREA :	4.13	sq. km	SHORELINE :	6.4	km.
SURFACE AREA :	74.9	ha.	COTTAGES :	39	
MAX DEPTH :	42.7	m.	RESORTS :	0	
VOLUME :	12.58	mill cu. m.	% CROWN LAND :	70	

CENTER

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/22/88	7.9	1.7
05/29/88	7.2	2.4
06/05/88	6.1	1.3
06/12/88	7.5	1.1
06/19/88	7.7	0.8
06/27/88	9.6	3.3
07/03/88	9.6	2.2
07/10/88	9.6	1.3
07/17/88	9.6	1.1
07/24/88	10.5	2.9
08/01/88	9.0	0.6
08/07/88	9.3	1.9
MEAN	8.6	1.7
MAX	10.5	3.3
MIN	6.1	0.6
N	12	12
SD	1.31	0.84

HISTOPICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1976	8.5	2.4
1977 **	9.1	1.2
1978	8.0	1.2
1979	7.9	2.5
1980	8.9	1.7
1981	9.8	2.2
1982	7.9	1.2
1988	8.6	1.7
MEAN	8.6	1.8
MAX	9.8	2.5
MIN	7.9	1.2
N	8	8
SD	0.67	0.55

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : GREEN
TWP : RADCLIFFE
COUNTY : RENFREW

ID NUMBER : 18-3490-048-01

WATERSHED AREA :	15.61	sq. km	SHORELINE :	2.9	km.
SURFACE AREA :	29.1	ha.	COTTAGES :	3	
MAX DEPTH :	22.5	m.	RESORTS :	0	
VOLUME :	2.12	mill cu. m.	% CROWN LAND :	0	

CENTER

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/14/88	4.9	1.5
05/29/88	5.2	1.8
06/14/88	4.9	0.6
06/21/88	5.5	0.6
07/04/88	4.6	0.5
07/12/88	4.6	0.8
07/18/88	4.6	0.7
07/25/88	5.5	1.4
08/02/88	5.8	0.9
08/08/88	5.8	1.7
08/15/88	5.5	1.8
08/23/88	5.8	0.6
08/29/88	5.8	1.3
09/07/88	5.8	1.7
09/13/88	5.2	1.1
09/25/88	6.1	1.6
MEAN	5.4	1.2
MAX	6.1	1.8
MIN	4.6	0.5
N	16	16
SD	0.50	0.49

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1986 **	5.6	2.1
1987	6.0	2.1
1988	5.4	1.2
MEAN	5.7	1.8
MAX	6.0	2.1
MIN	5.4	1.2
N	3	3
SD	0.31	0.52

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : GRINDSTONE
 TWP : MILLER, CLARENDON
 COUNTY : FRONTENAC

ID NUMBER : 18-3430-037-01

WATERSHED AREA :	6.51	sq. km	SHORELINE :	17.07 km.
SURFACE AREA :	174.82	ha.	COTTAGES :	
MAX DEPTH :	18.29	m.	RESORTS :	
VOLUME :		mill cu. m.	% CROWN LAND :	

SOUTHEAST

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/04/88	6.2	0.6
07/11/88	5.9	1.3
07/18/88	5.5	0.3
07/25/88	5.6	3.0
08/01/88	5.6	2.6
08/08/88	5.2	3.9
08/15/88	4.4	1.9
08/22/88	4.6	1.8
08/27/88	4.7	1.7
09/05/88	4.1	1.4
09/19/88	3.7	1.3
09/26/88	4.0	1.6
MEAN	5.0	1.8
MAX	6.2	3.9
MIN	3.7	0.3
N	12	12
SD	0.82	1.00

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1976 **	5.2	2.7
1980 **	4.6	2.4
1987	4.4	1.8
1988	5.0	1.8
MEAN	4.8	2.2
MAX	5.2	2.7
MIN	4.4	1.8
N	4	4
SD	0.37	0.45

NOTE : * Based on less then 6 readings.
 ** Recreational lakes included.

LAKE : GUNTER
TWP : CASHEL
COUNTY : HASTINGS

ID NUMBER : 17-0021-007-01

WATERSHED AREA :	20.60	sq. km	SHORELINE :	5.50	km.
SURFACE AREA :	69.0	ha.	COTTAGES :	46	+9 HOUSES
MAX DEPTH :	18.30	m.	RESORTS :	2	
VOLUME :	12.63	mill cu. m.	% CROWN LAND :	18	

HISTORICAL RECORD

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/03/88	3.7	0.7
07/17/88	5.2	0.8
07/24/88	4.6	1.1
08/01/88	5.2	0.7
08/17/88	4.0	0.4
08/28/88	4.3	0.6
09/11/88	4.3	1.2
MEAN	4.5	0.8
MAX	5.2	1.2
MIN	3.7	0.4
N	7	7
SD	0.57	0.28

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1977 **	5.2	3.0
1980	3.6	3.0
1981	4.3	3.8
1982	3.9	2.5
1983	3.5	1.5
1984	3.6	2.7
1987 *	4.1	1.7
1988	4.5	0.8
MEAN	4.1	2.4
MAX	5.2	3.8
MIN	3.5	0.8
N	8	8
SD	0.57	0.97

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : HAY BAY - BAY OF QUINTE
 TWP : NORTH & SOUTH FREDERICKSBURG
 COUNTY : LENNOX & ADDINGTON

ID NUMBER : 17-0037-001-01

WATERSHED AREA :	sq. km	SHORELINE :	km.
SURFACE AREA :	ha.	COTTAGES :	
MAX DEPTH :	m.	RESORTS :	6 (211)
VOLUME :	mill cu. m.	% CROWN LAND :	0

SOUTH SHORE

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/04/88	2.0	10.9
07/12/88	1.7	7.5
07/20/88	2.0	13.0
07/27/88	2.6	11.0
08/02/88	1.5	17.0
08/08/88	1.2	31.0
08/18/88	0.9	27.0
08/22/88	0.9	35.0
09/22/88	1.1	25.0
09/26/88	1.1	25.0
MEAN	1.5	20.2
MAX	2.6	35.0
MIN	0.9	7.5
N	10	10
SD	0.57	9.56

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1976 *	0.8	24.0
1977	1.1	24.9
1978	1.5	18.3
1979	1.2	24.9
1980	1.0	29.8
1981	1.4	21.3
1982	1.6	17.0
1983	2.0	16.8
1984 *	1.2	28.3
1985 *	1.3	24.2
1986	1.3	25.0
1987	1.6	20.7
1988	1.5	20.2
MEAN	1.3	22.7
MAX	2.0	29.8
MIN	0.8	16.8
N	13	13
SD	0.31	4.08

NOTE : * Based on less then 6 readings.

** Recreational lakes included.

LAKE : HURDS
TWP : BAGOT
COUNTY : RENFREW

ID NUMBER : 18-3690-005-01

WATERSHED AREA :	27.7	sq.km	SHORELINE :	20.4	km.
SURFACE AREA :	144	ha.	COTTAGES :	111	
MAX DEPTH :	40.2	m.	RESORTS :	2 (7)	
VOLUME :	12.25	mill cu. m.	% CROWN LAND :		

EAST END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/05/88	3.4	
06/12/88	2.9	1.2
06/21/88	4.3	1.6
07/03/88	3.3	1.8
07/12/88	4.8	2.2
07/19/88	4.6	2.2
07/25/88	4.4	2.7
08/01/88	3.6	1.7
08/07/88	4.1	4.3
08/21/88	3.6	2.8
08/28/88	4.1	2.4
MEAN	3.9	2.3
MAX	4.8	4.3
MIN	2.9	1.2
N	11	10
SD	0.60	0.87

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975	4.8	2.5
1977	4.7	3.2
1978 **	4.5	4.1
1979	4.4	4.3
1988	3.9	2.3
MEAN	4.5	3.3
MAX	4.8	4.3
MIN	3.9	2.3
N	5	5
SD	0.35	0.91

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : HUTSON
 TWP : GRIFFITH, MATAWATCHAN
 COUNTY : RENFREW

ID NUMBER : 18-3490-050-01

WATERSHED AREA :	sq. km	SHORELINE :	km.
SURFACE AREA :	ha.	COTTAGES :	
MAX DEPTH :	m.	RESORTS :	
VOLUME :	mill cu. m.	% CROWN LAND :	

CENTER OF LAKE

SAMPLE DATE	SECOND DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
07/03/88	5.1	1.0
07/03/88	5.2	1.5
MEAN	5.2	1.3
MAX	5.2	1.5
MIN	5.1	1.0
N	2	2
SD	0.10	0.36

LAKE : INDIAN
TWP : SOUTH CROSBY
COUNTY : LEEDS

ID NUMBER : 12-0004-013-01

WATERSHED AREA :	359.00	sq. km	SHORELINE :	16.58 km.
SURFACE AREA :	266.0	ha.	COTTAGES :	106
MAX DEPTH :	26.00	m.	RESORTS :	2 (11)
VOLUME :	26.79	mill cu. m.	% CROWN LAND :	0

MID - LAKE

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/07/88	4.3	1.4
05/15/88	3.2	2.6
05/22/88	3.4	1.6
05/28/88	3.7	1.0
06/06/88	3.7	2.5
06/11/88	3.4	1.7
06/14/88	4.0	1.8
06/20/88	3.7	1.3
06/27/88	4.6	2.4
07/04/88	4.3	1.4
07/11/88	3.4	1.2
07/17/88	3.7	2.3
07/24/88	3.7	2.0
08/01/88	4.0	2.8
08/15/88	4.0	2.4
08/21/88	4.3	2.6
08/27/88	4.6	1.9
09/05/88	3.7	3.2
09/12/88	4.0	2.1
09/16/88	4.9	3.9
09/24/88	4.6	2.2
MEAN	4.0	2.1
MAX	4.9	3.9
MIN	3.2	1.0
N	21	21
SD	0.47	0.71

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971 **	4.2	3.0
1975 **	4.6	5.4
1977	3.6	3.0
1980	3.9	4.5
1982	4.3	3.3
1983 **	4.0	2.2
1984	3.7	3.6
1985	4.3	3.6
1986	3.9	3.7
1987	4.3	3.1
1988	4.0	2.1
MEAN	4.1	3.4
MAX	4.6	5.4
MIN	3.6	2.1
N	11	11
SD	0.30	0.95

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : JEFFREY
TWP : FARADAY
COUNTY : HASTINGS

ID NUMBER : 18-3490-047-01

WATERSHED AREA	: 19.20	sq. km	SHORELINE	: 7.57	km.
SURFACE AREA	: 113.0	ha.	COTTAGES	: 89	
MAX DEPTH	: 24.4	m.	RESORTS	: 1 (15)	
VOLUME	: 10.19	mill cu. m.	% CROWN LAND	: 35	

CENTER

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
07/03/88	7.3	0.2
07/17/88	6.4	1.0
08/07/88	6.9	1.0
08/28/88	6.9	1.5
MEAN	6.9	0.9
MAX	7.3	1.5
MIN	6.4	0.2
N	4	4
SD	0.37	0.54

-HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1977 **	7.9	1.2
1985	7.0	1.2
1986 **	6.3	2.0
1987	6.7	1.1
1988 *	6.9	0.9
MEAN	7.0	1.4
MAX	7.9	2.0
MIN	6.3	0.9
N	5	5
SD	0.56	0.47

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : JEFFREY'S (OLMSTEAD)
 TWP : ROSS
 COUNTY : RENFREW

ID NUMBER : 18-4810-001-01

WATERSHED AREA :	26.80	sq. km	SHORELINE :	10.60 km.
SURFACE AREA :	180.0	ha.	COTTAGES :	98
MAX DEPTH :	29.30	m.	RESORTS :	2 (305)
VOLUME :	11.6	mill cu. m.	% CROWN LAND :	0

MID - LAKE

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/10/88	6.4	0.8
07/25/88	7.0	1.2
08/07/88	6.1	1.4
08/31/88	6.1	0.8
09/17/88	6.7	0.7
10/16/88	6.4	1.5
MEAN	6.5	1.1
MAX	7.0	1.5
MIN	6.1	0.7
N	6	6
SD	0.35	0.35

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1977	6.3	2.1
1978 **	6.0	2.2
1979	6.3	1.8
1980	5.4	3.9
1981	5.7	3.0
1982	6.2	1.8
1983	6.7	1.7
1984	5.4	4.1
1985 *	5.4	5.6
1986	5.3	1.9
1987	6.0	1.8
1988	6.5	1.1
MEAN	5.9	2.6
MAX	6.7	5.8
MIN	5.3	1.1
N	12	12
SD	0.48	1.36

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : JOEPERRY
 TWP : EFFINGHAM
 COUNTY : LENNOX & ADDINGTON

ID NUMBER : 17-0026-001-01

WATERSHED AREA :	15.40	sq. km	SHORELINE :	9.00	km.
SURFACE AREA :	169.0	ha.	COTTAGES :	0	
MAX DEPTH :	23.00	m.	RESORTS :	0	
VOLUME :	12.35	mill cu. m.	% CROWN LAND :	100	

BON ECHO PROVINCIAL PARK

HISTORICAL RECORD

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/16/88	3.0	2.4
06/23/88	2.6	1.6
07/07/88	3.0	1.9
07/14/88	2.7	1.2
07/21/88		1.2
07/28/88	3.7	3.1
08/05/88	2.7	0.8
08/11/88	2.7	1.5
08/18/88	3.0	2.6
08/24/88	3.1	1.0
09/01/88	3.7	1.2
MEAN	3.0	1.7
MAX	3.7	3.1
MIN	2.6	0.8
N	10	11
SD	0.40	0.73

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1976 **	4.4	2.4
1977	4.2	3.8
1978 *	3.8	3.9
1979 *	3.6	3.2
1980 *	3.1	3.2
1981 *	5.6	2.5
1982	3.8	3.0
1983 **	4.0	3.3
1984 **	3.0	1.8
1985 **	3.0	3.0
1986	2.7	2.8
1987	3.0	1.9
1988	3.0	1.7
MEAN	3.6	2.8
MAX	5.6	3.9
MIN	2.7	1.7
N	13	13
SD	0.80	0.71

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : KASHWAKAMAK
 TWP : CLARENDON, BARRIE, MILLER
 COUNTY : FRONTENAC

ID NUMBER : 18-3430-010-01

WATERSHED AREA : 409.8	sq. km	SHORELINE : 66	km.
SURFACE AREA : 119.1	ha.	COTTAGES : 445	
MAX DEPTH : 21.9	m.	RESORTS : 12	
VOLUME : 96.71	mill cu. m.	% CROWN LAND :	

NORTH END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
08/02/88	2.9	1.1
08/02/88	2.6	1.0
08/02/88	2.4	0.8
08/02/88	3.0	0.9
MEAN	2.7	1.0
MAX	3.0	1.1
MIN	2.4	0.8
N	4	4
SD	0.28	0.14

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1974 **	6.4	1.5
1976 **	5.4	2.4
1980 **	3.1	3.2
1986 **	5.3	2.0
1987 *	3.0	1.8
1988 *	2.7	1.0
MEAN	4.2	2.0
MAX	6.4	3.2
MIN	2.7	1.0
N	6	6
SD	1.57	0.78

NOTE : * Based on less than 5 readings.

** Recreational lakes included.

LAKE : KENNEBEC
TWP : KENNEBEC, OLDEN
COUNTY : FRONTENAC

ID NUMBER : 17-0031-006-01

WATERSHED AREA : 286.3	sq.km	SHORELINE : 30.6	km.
SURFACE AREA : 5.47	ha.	COTTAGES : 99	
MAX DEPTH : 30.5	m.	RESORTS : 3(29)	
VOLUME : 43.60	mill cu. m.	% CROWN LAND : 10	

EAST BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/23/88	1.7	2.3
06/12/88	1.8	1.6
07/03/88	2.1	3.3
07/11/88	2.1	3.3
07/23/88	2.1	5.0
08/07/88	3.4	2.2
08/21/88	4.3	1.7
09/01/88	3.5	3.4
09/04/88	3.4	2.1
09/24/88	4.3	4.9
10/09/88	3.0	5.2
MEAN	2.9	3.2
MAX	4.3	5.2
MIN	1.7	1.6
N	11	11
SD	0.97	1.34

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1976 **	3.6	5.1
1977	3.7	2.9
1978	3.5	3.2
1979	3.2	3.4
1980	2.6	9.6
1981	3.3	2.9
1984 **	2.6	4.8
1987	2.9	3.1
1988	2.9	3.2
MEAN	3.1	4.2
MAX	3.7	9.6
MIN	2.6	2.9
N	9	9
SD	0.42	2.17

NOTE : + Based on less then 6 readings.

** Recreational lakes included.

WEST BASIN - MOUTH OF SALMON RIVER

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
08/12/88	3.4	1.8
08/26/88	3.0	2.7
09/09/88	2.7	2.8
09/16/88	3.4	3.3
09/26/88	3.2	3.9
MEAN	3.1	2.9
MAX	3.4	3.9
MIN	2.7	1.8
N	5	5
SD	0.30	0.78

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1976 **	3.2	4.1
1977	3.7	2.9
1978	3.5	3.4
1979	3.2	3.6
1980	2.4	7.6
1981	3.1	3.6
1984 **	2.9	5.2
1987	2.9	3.3
1988 *	3.1	2.9
MEAN	3.1	4.1
MAX	3.7	7.6
MIN	2.4	2.9
N	9	9
SD	0.37	1.50

NOTE : * Based on less then 6 readings.

** Recreational lakes included.

LAKE : KILLENBECK
 TWP : REAR OF LEEDS & LANSDOWNE
 COUNTY : LEEDS

ID NUMBER : 12-0017-011-01

WATERSHED AREA : 10.90 sq.km
 SURFACE AREA : 44.0 ha.
 MAX DEPTH : 27.70 m.
 VOLUME : 4.3 mill cu. m.

SHORELINE : 4.70 km.
 COTTAGES : 14
 RESORTS :
 % CROWN LAND : 0

SOUTHWEST END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/31/88	3.0	3.6
06/09/88	4.0	3.5
06/17/88	3.0	1.6
06/23/88	4.0	3.1
06/29/88	3.6	2.0
07/06/88	3.0	3.0
07/13/88	3.4	3.5
07/20/88	2.4	1.6
07/27/88	2.3	4.6
08/03/88	2.1	1.5
08/10/88	2.4	12.0
08/18/88	2.6	12.0
08/24/88	2.1	7.5
08/31/88	2.6	11.0
09/07/88	3.0	8.6
09/21/88	2.7	6.8
09/27/88		5.8
10/06/88	3.0	5.3
10/12/88	2.7	6.6
MEAN	2.9	5.5
MAX	4.0	12.0
MIN	2.1	1.5
N	18	19
SD	0.57	3.45

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1978 *	3.1	6.5
1984	2.6	6.0
1985	3.1	6.1
1986	2.0	13.9
1987	2.6	7.7
1988	2.9	5.5
MEAN	2.7	7.6
MAX	3.1	13.9
MIN	2.0	5.5
N	6	6
SD	0.42	3.17

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : LIMERICK
TWP : LIMERICK
COUNTY : HASTINGS

ID NUMBER : 17-0021-010-01

WATERSHED AREA : 181.41	sq. km	SHORELINE : 27.00 km.
SURFACE AREA : 744.0	ha.	COTTAGES : 130 + 3 HOUSES
MAX DEPTH : 29.00	m.	RESORTS : 1 (14)
VOLUME : 62.87	mill cu. m.	% CROWN LAND : 1

OFF WALTER COTTAGE

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/12/88	5.2	0.9
07/04/88	5.5	1.4
07/18/88	4.3	1.8
08/01/88	4.3	1.0
08/08/88	4.6	1.8
08/17/88	4.6	
09/02/88	4.3	2.1
09/08/88	4.3	1.6
MEAN	4.6	1.5
MAX	5.5	2.1
MIN	4.3	0.9
N	8	7
SD	0.47	0.44

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975	5.0	1.7
1976	4.9	1.7
1977 **	5.0	1.8
1978	4.9	2.0
1979	4.5	2.1
1980	4.7	2.2
1981 *	4.4	2.0
1982	4.4	1.8
1983	4.4	1.4
1984	4.5	2.7
1985 **	4.7	2.3
1986	4.5	1.9
1987	4.6	1.8
1988	4.6	1.5
MEAN	4.6	1.9
MAX	5.0	2.7
MIN	4.4	1.4
N	14	14
SD	0.23	0.34

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : LITTLE FRANKLIN
TWP : LOUGHBOROUGH
COUNTY : FRONTENAC

ID NUMBER : 12-0004-034-01

WATERSHED AREA :	sq. km	SHORELINE :	km.
SURFACE AREA :	ha.	COTTAGES :	
MAX DEPTH :	m.	RESORTS :	
VOLUME :	mill cu. m.	% CROWN LAND :	

NORTH

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
08/11/88	3.8	7.2
08/16/88	5.7	3.0
08/26/88	3.3	2.9
09/05/88	3.3	3.0
09/12/88	3.5	2.8
10/10/88	3.7	4.5
10/16/88	2.6	4.8
MEAN	3.6	4.0
MAX	5.8	7.2
MIN	3.2	2.8
N	7	7
SD	0.20	1.62

SOUTH

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
08/11/88	3.6	3.5
08/18/88	4.0	3.3
08/28/88	3.5	3.5
09/05/88	3.7	5.8
09/12/88	3.2	2.5
10/10/88	3.8	4.0
10/16/88	3.3	4.1
MEAN	3.6	3.8
MAX	4.0	5.8
MIN	3.2	2.5
N	7	7
SD	0.28	1.02

LAKE : LITTLE SILVER
TWP : SOUTH SHERBROOKE
COUNTY : LANARK

ID NUMBER : 18-0033-021-01

WATERSHED AREA :	8.10	sq. km	SHORELINE :	10.10 km.
SURFACE AREA :	83.0	ha.	COTTAGES :	31
MAX DEPTH :	12.20	m.	RESORTS :	0
VOLUME :	3.82	mill cu. m.	% CROWN LAND :	0

BASIN B

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/29/88	5.0	2.1
06/13/88	3.7	1.4
06/19/88	4.3	1.1
06/26/88	4.1	2.7
07/03/88	3.0	1.7
07/25/88	5.2	0.7
08/01/88	4.7	1.0
08/13/88	4.6	1.3
09/21/88	3.7	11.0
10/08/88	3.4	4.9
MEAN	4.2	2.8
MAX	5.2	11.0
MIN	3.0	0.7
N	10	10
SD	0.72	3.13

TURTLE ROCK BAY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/29/88	5.2	1.5
06/12/88	4.0	0.7
06/19/88	4.4	1.1
06/26/88	3.8	2.4
07/03/88	3.7	1.5
07/25/88	5.3	1.2
08/01/88	4.7	0.6
08/13/88	4.6	0.8
09/21/88	4.3	9.7
10/08/88	3.5	3.4
MEAN	4.4	2.3
MAX	5.3	9.7
MIN	3.5	0.6
N	10	10
SD	0.62	2.74

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1976 *	3.7	2.5
1977 **	4.0	6.6
1978	5.3	3.9
1979 **	3.6	6.9
1982	4.4	3.2
1983	4.3	2.1
1984	3.9	4.1
1985	3.9	4.2
1986	3.6	3.6
1987	3.6	3.2
1988	4.3	2.6
MEAN	4.1	3.9
MAX	5.3	6.9
MIN	3.6	2.1
N	11	11
SD	0.51	1.56

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : LOUGHBOROUGH : EAST BASIN
 TWP : STORRINGTON, LOUGHBOROUGH
 COUNTY : FRONTENAC

ID NUMBER : 12-0004-014-01

WATERSHED AREA :	120.00	sq. km	SHORELINE :	72.40 km.
SURFACE AREA :	1065.0	ha.	COTTAGES :	240 + 10 HOUSE
MAX DEPTH :	6.10	m.	RESORTS :	2 (74)
VOLUME :	22.08	mill cu. m.	% CROWN LAND :	0

EAST BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/15/88	3.4	2.0
06/27/88	3.5	2.2
07/09/88	3.5	2.7
07/22/88	3.1	3.6
08/04/88	2.4	2.9
08/16/88	2.0	8.3
08/30/88	2.4	6.3
09/14/88	2.4	2.9
09/25/88	3.0	3.3
MEAN	2.9	3.8
MAX	3.5	8.3
MIN	2.0	2.0
N	9	9
SD	0.57	2.10

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1973 *	3.3	5.0
1974	2.7	3.9
1975 **	2.4	6.9
1976	3.4	3.2
1977	2.8	5.6
1978	3.0	5.4
1979	3.3	5.4
1980	3.2	7.6
1981	2.9	7.4
1982	2.8	4.7
1983	3.6	3.3
1984	2.9	5.2
1985	2.6	6.4
1986	3.3	5.9
1987	3.0	6.0
1988	2.9	3.8
MEAN	3.0	5.4
MAX	3.6	7.6
MIN	2.4	3.2
N	16	16
SD	0.32	1.35

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : LOUGHBOROUGH : WEST BASIN
 TWP : STORRINGTON, LOUGHBOROUGH
 COUNTY : FRONTENAC

ID NUMBER : 12-0004-015-01

WATERSHED AREA :	58.00	sq. km	SHORELINE :	28.70 km.
SURFACE AREA :	738.0	ha.	COTTAGES :	138 + 13 HOUSE
MAX DEPTH :	38.40	m.	RESORTS :	3 (187)
VOLUME :	107.13	mill cu. m.	% CROWN LAND :	0

WEST BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/06/88	5.3	1.6
08/16/88	4.5	1.5
09/16/88	5.7	3.4
09/29/88	6.2	
10/12/88	5.8	4.1
11/03/88	5.5	
MEAN	5.5	2.8
MAX	6.2	4.1
MIN	4.5	1.6
N	6	4
SD	0.58	1.20

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1973 *	4.0	1.8
1974 *	3.8	3.0
1975 **	4.2	3.0
1976	4.5	3.8
1977	3.4	3.3
1978	3.9	2.7
1979	4.0	3.0
1980	4.8	3.8
1981 **	6.4	3.8
1982	6.0	2.1
1983	5.5	2.4
1984 *	5.2	4.2
1985 *	6.2	2.8
1986	6.1	2.4
1988 *	5.5	2.8
MEAN	4.9	3.0
MAX	6.4	4.2
MIN	3.4	1.6
N	15	15
SD	1.00	0.69

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : LOWER BEVERLEY
TWP : SOUTH CROSBY, BASTARD
COUNTY : LEEDS

ID NUMBER : 12-0017-012-01

WATERSHED AREA : 291.80	sq. km	SHORELINE : 44.00 km.
SURFACE AREA : 766.0	ha.	COTTAGES : 247 + 13 HOMES
MAX DEPTH : 25.90	m.	RESORTS : 4 (272)
VOLUME : 70.2	mill cu. m.	% CROWN LAND : 0

MAIN BASIN - OFF WHISKEY ISLAND

MAIN BASIN-WEST OF ENGLISH ISLAND

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/17/88	2.4	1.8
06/27/88	2.7	5.0
07/04/88	2.3	5.8
07/13/88	2.7	3.8
07/26/88	2.4	5.3
07/28/88	2.7	5.6
08/02/88	2.7	3.5
08/08/88	2.4	5.8
08/14/88	2.3	2.3
08/30/88	2.7	5.1
09/06/88	3.0	3.2
09/12/88	2.7	3.8
09/15/88	3.4	3.8
MEAN	2.8	4.2
MAX	3.7	5.8
MIN	2.3	1.8
N	13	13
SD	0.50	1.33

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
08/07/88	2.4	5.6
08/14/88	2.2	5.2
08/21/88	2.3	2.3
08/28/88	2.3	4.2
09/05/88	2.7	3.1
MEAN	2.4	4.1
MAX	2.7	5.6
MIN	2.2	2.3
N	5	5
SD	0.19	1.33

DA BAY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/20/88	2.1	2.0
05/29/88	2.1	1.8
06/19/88	2.0	2.5
06/26/88	2.0	5.8
07/13/88	2.0	2.2
07/24/88	1.8	12.0
08/01/88	1.8	4.6
08/07/88	1.5	6.8
09/05/88	1.5	17.0
MEAN	1.9	5.1
MAX	2.1	17.0
MIN	1.5	1.8
N	9	9
SD	0.24	5.25

LAKE : LOWER BEVERLEY
TWP : SOUTH CROSBY, BASTARD
COUNTY : LEEDS

ID NUMBER : 12-0017-012-01

WATERSHED AREA : 281.80	sq. km	SHORELINE : 44.00	km.
SURFACE AREA : 766.0	ha.	COTTAGES : 247 + 13 HOMES	
MAX DEPTH : 25.90	m.	RESORTS : 4 (270)	
VOLUME : 70.2	mill cu. m.	% CROWN LAND : 0	

HISTORICAL RECORD - MAIN BASIN

SAMPLE DATE (YEAR)	SEDIMENT DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971 **	0.2	6.0
1975 **	0.5	6.2
1977	0.4	7.6
1978	2.4	5.4
1982 **	0.4	3.6
1982 **	0.8	4.6
1984 **	0.5	9.3
1987	0.7	5.1
1988	2.7	4.2

MEAN	0.7	6.1
MAX	0.5	9.9
MIN	0.2	3.9
N	8	9
SD	0.44	2.04

NOTE : * Based on less than 6 readings.
** Recreational takes included.

HISTORICAL RECORD - GAK BASIN

SAMPLE DATE (YEAR)	SEDIMENT DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971 **	1.7	10.0
1981	2.5	6.6
1984	1.2	6.6
1985	1.7	10.6
1986	1.7	14.6
1987	1.8	7.1
1988	1.9	6.1

MEAN	1.9	10.1
MAX	2.5	14.6
MIN	1.2	6.1
N	7	7
SD	0.29	2.18

NOTE : * Based on less than 6 readings.
** Recreational takes included.

LAKE : MAZINAW
 TWP : ABINGER, BARRIE
 COUNTY : FRONTENAC, LENNOX & ADDINGTON

ID NUMBER : 18-3430-011-01

WATERSHED AREA : 137.85	sq. km	SHORELINE : 49.10 km.
SURFACE AREA : 1590.0	ha.	COTTAGES : 254 (1972)
MAX DEPTH : 144.80	m.	RESORTS : 2(47), 5(765)
VOLUME : 655.00	mill cu. m.	% CROWN LAND : 50

BON ECHO PROVINCIAL PARK

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/16/88	3.0	0.5
06/23/88	3.4	1.8
07/07/88	3.0	0.3
07/14/88	3.0	1.1
07/21/88	3.4	0.3
07/28/88	3.0	0.4
08/05/88	2.7	0.3
08/11/88	2.7	1.4
08/18/88	3.0	2.2
08/24/88	2.7	1.4
09/01/88	3.0	1.2
MEAN	3.0	1.0
MAX	3.4	2.2
MIN	2.7	0.3
N	11	11
SD	0.24	0.67

NORTHEAST END-SOUTH OF HUNGRY BAY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/13/88	6.7	0.6
07/18/88	5.2	0.5
07/27/88	5.5	0.8
08/09/88	5.2	0.8
08/15/88	4.6	1.3
08/23/88	4.0	1.0
MEAN	5.2	0.8
MAX	6.7	1.2
MIN	4.0	0.5
N	6	6
SD	0.91	0.29

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971 **	5.2	1.5
1975	5.6	1.5
1976	5.6	1.8
1977	5.7	1.8
1978	5.6	1.5
1979	5.2	2.1
1980	4.9	2.1
1981	4.7	1.8
1982	3.5	1.8
1983 *	3.6	1.5
1984	4.0	2.2
1985	3.6	1.7
1986	3.7	1.7
1987	3.6	1.3
1988	3.8	0.9
MEAN	4.6	1.7
MAX	5.7	2.2
MIN	3.5	0.9
N	15	15
SD	0.89	0.33

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : MINK
TWP : WILBERFORCE
COUNTY : RENFREW

ID NUMBER : 18-3690-006-01

WATERSHED AREA : 40.20	sq. km	SHORELINE :	km.
SURFACE AREA : 556.0	ha.	COTTAGES :	119
MAX DEPTH : 13.70	m.	RESORTS :	2 (102)
VOLUME : 72.3	mill cu. m.	% CROWN LAND :	0

CENTER OF EAST END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/20/88	3.6	2.0
08/23/88	3.7	1.0
10/10/88	4.3	2.6
MEAN	3.9	1.9
MAX	4.3	2.6
MIN	3.7	1.0
N	3	3
SD	0.32	0.81

CENTER OF WEST END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/20/88	3.8	2.0
08/23/88	3.7	0.7
10/10/88	4.3	3.0
MEAN	3.9	1.9
MAX	4.3	3.0
MIN	3.7	0.7
N	3	3
SD	0.32	1.15

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 *	3.4	1.8
1975	3.9	2.7
1976	3.6	2.7
1977	3.5	2.0
1978 **	4.1	3.0
1979	4.2	3.1
1980	4.1	3.2
1981	3.0	3.8
1982 *	2.7	2.7
1984 **	3.2	4.7
1985 **	3.6	2.0
1986 *	3.5	1.9
1987	3.2	2.5
1988	3.9	1.9
MEAN	3.6	2.8
MAX	4.2	4.7
MIN	2.7	1.8
N	14	4
SD	0.40	1.07

NOTE : * Based on less than 3 readings.

** The recreational lake is included.

LAKE : MOIRA : EAST BASIN
 TWP : HUNTINGTON
 COUNTY : HASTINGS

ID NUMBER : 17-0026-002-01

WATERSHED AREA :	596.00	sq. km	SHORELINE :	14.70 km.
SURFACE AREA :	611.0	ha.	COTTAGES :	
MAX DEPTH :	11.00	m.	RESORTS :	
VOLUME :		mill cu. m.	% CROWN LAND :	0

EAST BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/30/88	4.0	2.2
06/13/88	3.2	5.4
06/19/88	2.4	5.6
06/27/88	2.0	5.0
07/08/88	2.4	0.4
07/13/88	2.4	10.0
07/22/88	2.1	5.0
07/28/88	2.1	2.1
08/11/88	3.4	4.5
08/29/88	2.9	16.0
09/12/88	2.1	12.0
MEAN	2.6	6.2
MAX	4.0	16.0
MIN	2.0	0.4
N	11	11
SD	0.65	4.66

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1972 **	1.2	37.8
1974	2.1	13.8
1977	2.4	10.8
1978	2.0	12.0
1979 *	2.0	15.3
1981	3.1	7.6
1982	2.0	17.0
1983	1.8	15.2
1984	2.3	15.9
1985	2.0	14.7
1986	1.9	11.0
1987	2.7	12.2
1988	2.6	6.2
MEAN	2.2	14.6
MAX	3.1	37.8
MIN	1.2	6.2
N	13	13
SD	0.47	7.67

NOTE : * Based on less then 6 readings.
 ** Recreational lakes included.

LAKE : MOIRA : WEST BASIN
 TWP : HUNTINGTON
 COUNTY : HASTINGS

ID NUMBER : 17-0026-003-01

WATERSHED AREA : 546.00	sq. km	SHORELINE : 9.30	km.
SURFACE AREA : 216.0	ha.	COTTAGES : 64	(1972)
MAX DEPTH : 7.30	m.	RESORTS :	
VOLUME : 7.47	mill cu. m.	% CROWN LAND :	0

WEST BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLDROPHYLL A (UG/L)
06/15/88	2.1	2.6
06/21/88	2.0	4.5
07/04/88	1.5	5.3
07/13/88	1.8	11.0
07/19/88	1.5	8.2
07/28/88	1.4	15.0
08/02/88	1.2	19.0
08/09/88	1.1	12.0
08/18/88	1.1	31.0
08/24/88	1.2	18.0
08/30/88	1.2	22.0
09/07/88	1.2	26.0
09/14/88	1.2	25.0
MEAN	1.4	15.4
MAX	2.1	31.0
MIN	1.1	2.6
N	13	13
SD	0.34	9.03

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLDROPHYLL A (UG/L)
1972 **	1.1	39.0
1973 **	1.6	15.6
1974	1.7	13.8
1979	1.9	9.8
1983	1.8	6.9
1984	2.0	16.5
1986	1.5	9.5
1987	1.8	11.5
1988	1.4	15.4
MEAN	1.6	15.3
MAX	2.0	39.0
MIN	1.1	6.9
N	9	9
SD	0.28	9.45

NOTE : * Based on less then 6 readings.
 ** Recreational lakes included.

LAKE : MOSQUE
TWP : MILLER, CLARENDON
COUNTY : FRONTENAC

ID NUMBER : 18-3430-017-01

WATERSHED AREA : 6.21	sq. km	SHORELINE : 13.20 km.
SURFACE AREA : 138.0	ha.	COTTAGES : 43
MAX DEPTH : 34.10	m.	RESORTS : 1 (3)
VOLUME : 9.7	mill cu. m.	% CROWN LAND : 65

NORTH BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/02/88	4.9	0.2
07/22/88	5.2	0.8
08/06/88	4.7	0.2
09/02/88	4.6	1.7
09/25/88	4.6	1.7
10/08/88	4.6	2.6
MEAN	4.8	1.2
MAX	5.2	2.6
MIN	4.6	0.2
N	6	6
SD	0.24	0.96

SOUTH BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/02/88	4.6	0.4
07/22/88	5.0	0.5
08/06/88	4.6	0.4
09/02/88	4.6	1.0
10/08/88	4.3	2.6
MEAN	4.6	1.0
MAX	5.0	2.6
MIN	4.3	0.4
N	5	5
SD	0.25	0.94

HISTORICAL RECORD-N&S BASINS

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1976 **	6.3	2.7
1977	5.2	2.5
1978	5.5	2.5
1979	5.6	2.1
1980 **	6.0	2.4
1981	5.6	2.4
1982	5.0	2.1
1983	5.4	1.4
1984	5.2	2.7
1985	4.9	1.8
1986 **	4.5	1.9
1987	5.1	1.3
1988	4.7	1.1
MEAN	5.3	2.1
MAX	6.3	2.7
MIN	4.6	1.1
N	13	13
SD	0.49	0.54

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : MOSQUE
 TWP : MILLER, CLARENDON
 COUNTY : FRONTENAC

ID NUMBER : 18-3430-017-01

WATERSHED AREA : 6.21	sq. km	SHORELINE : 13.20 km.
SURFACE AREA : 138.0	ha.	COTTAGES : 43
MAX DEPTH : 34.10	m.	RESORTS : 1 (3)
VOLUME : 9.7	mill cu. m.	% CROWN LAND : 65

WEST BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/02/88	4.1	0.5
07/22/88	4.0	1.3
08/06/88	4.0	0.7
09/02/88	4.0	2.0
09/25/88	3.7	2.6
10/08/88	3.7	3.7
MEAN	3.9	1.8
MAX	4.1	3.7
MIN	3.7	0.5
N	6	6
SD	0.17	1.22

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1976 **	4.8	6.9
1977	3.9	4.3
1978	4.5	5.6
1979	4.6	4.8
1980 *	5.1	3.9
1981	4.5	2.5
1982	4.0	2.0
1983	4.2	2.1
1984	4.6	3.0
1985	3.7	3.1
1986	3.8	2.4
1987	4.3	1.3
1988	3.9	1.8
MEAN	4.3	3.4
MAX	5.1	6.9
MIN	3.7	1.3
N	13	13
SD	0.43	1.65

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : MUSKRAT
TWP : WESTMEATH, ROSS
COUNTY : RENFREW

ID NUMBER : 18-4810-002-01

WATERSHED AREA :	481.00	sq. km	SHORELINE :	34.00 km.
SURFACE AREA :	1202.0	ha.	COTTAGES :	132 + 21 HOUSE
MAX DEPTH :	64.00	m.	RESORTS :	5 (357)
VOLUME :	213.2	mill cu. m.	% CROWN LAND :	0

MID - LAKE

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
07/07/88	2.9	
07/13/88	3.5	2.4
07/27/88	3.4	3.2
08/02/88	3.5	7.9
08/10/88	3.0	14.0
06/18/88	2.7	
08/23/88	2.9	4.8
08/31/88	2.7	20.0
MEAN	3.1	8.7
MAX	3.5	20.0
MIN	2.7	2.4
N	8	6
SD	0.34	6.95

HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1977	1.7	15.5
1978 **	2.8	12.0
1979	2.4	10.7
1981	1.6	29.4
1982 **	2.3	14.9
1983	2.3	14.0
1984	3.1	12.0
1985	4.4	3.5
1986 **	3.5	9.8
1987	2.7	9.3
1988	3.1	8.7
MEAN	2.7	12.7
MAX	4.4	29.4
MIN	1.6	3.5
N	11	11
SD	0.80	6.47

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : NORWAY
 TWP : BAGOT, BLYTHFIELD
 COUNTY : RENFREW

ID NUMBER : 18-3490-028-01

WATERSHED AREA :	14.40	sq. km	SHORELINE :	12.90 km.
SURFACE AREA :	271.0	ha.	COTTAGES :	124
MAX DEPTH :	36.60	m.	RESORTS :	0
VOLUME :	25.38	mill cu. m.	% CROWN LAND :	99

SOUTHEAST END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/14/88	4.9	0.7
07/27/88	5.8	2.7
08/07/88		5.5
08/11/88	5.2	1.2
08/22/88	4.9	3.2
09/02/88	5.2	3.3
09/15/88	5.3	
10/20/88	5.2	2.2
10/27/88	5.0	1.7
11/17/88	4.3	2.0
MEAN	5.1	2.5
MAX	5.8	5.5
MIN	4.2	0.7
N	9	9
SD	0.40	1.42

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1978 **	4.8	2.4
1979	4.7	2.5
1981 *	5.1	1.5
1982 *	4.8	1.4
1983	5.1	3.3
1984 *	4.6	5.0
1985 **	5.4	1.6
1986 *	5.1	2.7
1987	5.4	1.5
1988	5.1	2.5
MEAN	5.0	2.4
MAX	5.4	5.0
MIN	4.6	1.4
N	10	10
SD	0.26	1.10

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : OPINICON
 TWP : BEDFORD, SOUTH CROSBY, STORRINGTON
 COUNTY : FRONTENAC, LEEDS

ID NUMBER : 12-0004-016-01

WATERSHED AREA : 580.00	sq. km	SHORELINE : 52.00 km.
SURFACE AREA : 785.0	ha.	COTTAGES : 120 (1971)
MAX DEPTH : 9.15	m.	RESORTS : 6 (104)
VOLUME : 38.61	mill cu. m.	% CROWN LAND : 0

BETWEEN SNAKE & HUCKLEBERRY ISLANDS

HISTORICAL RECORD

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/29/88	4.9	1.3
06/12/88	3.7	1.8
06/19/88	3.7	1.8
06/27/88	4.0	3.5
07/03/88	3.0	2.1
07/10/88	4.4	0.7
07/18/88	5.2	1.3
07/25/88	4.6	2.3
08/01/88	3.7	2.7
08/07/88	4.1	3.8
08/14/88	2.9	3.7
08/21/88	2.3	4.3
08/31/88	2.9	7.6
09/06/88	2.0	7.7
09/11/88	2.7	4.7
09/18/88	3.5	3.9
09/24/88	3.5	3.9
MEAN	3.6	3.4
MAX	5.2	7.7
MIN	2.0	0.7
N	17	17
SD	0.89	2.00

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971 **	2.9	4.1
1975 **	3.0	4.7
1977	2.8	3.9
1978	3.0	5.4
1979	3.3	5.6
1980	3.2	5.8
1981	3.2	4.7
1982	3.1	4.1
1983	3.2	3.3
1984 **	3.1	3.9
1985	3.1	3.8
1986 **	3.1	5.5
1987	3.3	3.7
1988	3.6	3.4
MEAN	3.1	4.4
MAX	3.6	5.8
MIN	2.8	3.3
N	14	14
SD	0.20	0.86

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : OTTER
TWP : BASTARD, SOUTH ELMSLEY, SOUTH BURGESS, KITLEY
COUNTY : LEEDS

ID NUMBER : 18-0033-024-01

WATERSHED AREA : 46.55	sq. km	SHORELINE : 20.1	km.
SURFACE AREA : 602.0	ha.	COTTAGES : 291 + 5	HOUSES
MAX DEPTH : 36.60	m.	RESORTS : 6	(214)
VOLUME : 60.46	mill cu. m.	% CROWN LAND : 1	

STATION 2

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/29/88	2.9	2.0
06/05/88	3.0	2.3
06/12/88	2.7	2.7
07/03/88	4.3	0.8
07/31/88	2.9	2.0
08/07/88	2.9	1.6
08/16/88	3.0	2.1
08/27/88	2.7	2.4
09/03/88	3.0	1.5
09/10/88	2.9	1.1
MEAN	3.0	1.9
MAX	4.3	2.7
MIN	2.7	0.8
N	10	10
SD	0.46	0.60

STATION 1 - FRAYN ROAD

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/13/88	2.9	1.5
06/24/88	4.9	0.9
07/03/88	5.0	1.0
07/07/88	4.4	1.2
07/13/88	3.5	2.0
07/19/88	2.9	2.3
07/26/88	2.7	2.9
08/03/88	3.5	1.7
08/17/88	3.5	2.4
MEAN	3.7	1.8
MAX	5.0	2.9
MIN	2.7	0.9
N	9	9
SD	0.87	0.69

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	3.4	2.4
1976	3.1	3.8
1977	3.0	3.2
1978	3.3	3.0
1979	3.1	3.4
1980	2.7	3.4
1981 **	3.1	3.2
1982 **	3.1	2.2
1983	3.2	2.1
1984	3.0	3.2
1985	3.0	2.3
1986	2.9	3.4
1987	2.7	2.7
1988	3.4	1.6
MEAN	3.1	2.9
MAX	3.4	3.8
MIN	2.7	1.6
N	14	14
SD	0.22	0.61

NOTE : * Based on less than 6 readings.

LAKE : OTTY
 TWP : NORTH BURGESS, NORTH ELMSLEY
 COUNTY : LANARK

ID NUMBER : 18-0033-025-01

WATERSHED AREA : 47.9	sq. km	SHORELINE : 35.4	km.
SURFACE AREA : 625	ha.	COTTAGES : 336 + 41	HOUSE
MAX DEPTH : 27.4	m.	RESORTS : 3 (27)	
VOLUME : 56.41	mill cu. m.	% CROWN LAND : 0	

SITE A

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/20/88	3.4	1.2
06/27/88	4.0	2.4
07/04/88	5.8	0.7
07/11/88	6.1	2.3
07/18/88	5.8	1.4
07/25/88	5.8	1.2
08/02/88	4.9	1.4
08/08/88	4.3	2.5
08/18/88		2.5
08/22/88	4.0	2.6
08/29/88	5.2	1.9
09/06/88	4.6	1.9
MEAN	4.9	1.8
MAX	6.1	2.6
MIN	3.4	0.7
N	11	12
SD	0.91	0.64

SITE B

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/20/88	3.4	1.7
06/27/88	4.3	2.4
07/04/88	5.0	0.8
07/11/88	5.8	1.3
07/18/88	5.2	2.4
07/25/88	5.5	1.8
08/02/88	4.9	1.5
08/08/88	3.7	3.6
08/15/88		3.5
08/22/88	3.0	1.7
08/29/88	4.9	1.6
09/06/88	4.3	2.4
MEAN	4.5	2.1
MAX	5.8	3.6
MIN	3.0	0.8
N	11	12
SD	0.89	0.84

LAKE : DTTY
 TWP : NORTH BURGESS, NORTH ELMSLEY
 COUNTY : LANARK

ID NUMBER : 18-0033-025-01

WATERSHED AREA : 47.9 sq. km
 SURFACE AREA : 625 ha.
 MAX DEPTH : 27.4 m.
 VOLUME : 56.41 mill cu. m.

SHORELINE : 35.4 km.
 COTTAGES : 336 + 41 HOUSE
 RESORTS : 3 (27)
 % CROWN LAND : 0

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971 **	3.2	3.3
1973 **	4.1	2.9
1974 **	4.1	3.0
1975 **	4.4	3.2
1976	4.5	2.7
1977	4.0	2.5
1978	4.2	3.2
1979	4.4	3.2
1980	4.5	4.1
1981	3.9	3.3
1982	4.7	3.3
1983	4.5	2.0
1984	4.1	4.2
1985	4.7	2.4
1986	4.2	3.4
1987	4.1	2.1
1988	4.7	2.0
MEAN	4.3	3.0
MAX	4.7	4.2
MIN	3.2	2.0
N	17	17
SD	0.38	0.65

NOTE : * Based on less then 6 readings.
 ** Recreational lakes included.

LAKE : PAUGH
 TWP : BURNS, SHERWOOD
 COUNTY : RENFREW

ID NUMBER : 18-3690-009-01

WATERSHED AREA : 75.00	sq. km	SHORELINE : 18.00 km.
SURFACE AREA : 713.0	ha.	COTTAGES : 77
MAX DEPTH : 51.80	m.	RESORTS : 1 (?)
VOLUME : 100	mill cu. m.	% CROWN LAND : 80

WEST END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/23/88	6.6	0.6
05/29/88	6.6	0.4
07/17/88	6.5	0.6
08/09/88	6.4	1.0
09/18/88	5.6	1.1
MEAN	6.3	0.7
MAX	6.6	1.1
MIN	5.6	0.4
N	5	5
SD	0.42	0.30

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1977 **	5.4	1.5
1980	5.2	2.2
1981	5.3	2.0
1982	5.2	1.4
1983 **	5.3	1.4
1984 **	4.8	1.7
1985 **	4.7	1.3
1986 *	5.0	1.9
1987	5.6	1.4
1988 *	6.3	0.7
MEAN	5.3	1.6
MAX	6.3	2.2
MIN	4.7	0.7
N	10	10
SD	0.45	0.43

NOTE : * Based on less then 6 readings.
 ** Recreational lakes included.

LAKE : PIKE
 TWP : NORTH BURGESS, NORTH CROSBY
 COUNTY : LANARK, LEEDS

ID NUMBER : 18-0033-028-01

WATERSHED AREA : 60.00	sq. km	SHORELINE : 22.10 km.
SURFACE AREA : 316.0	ha.	COTTAGES : 143 (1974)
MAX DEPTH : 32.60	m.	RESORTS : 2 (38)
VOLUME : 26.58	mill cu. m.	% CROWN LAND : 0

CENTRE

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/01/88	4.0	3.8
05/22/88	5.3	1.1
06/12/88	6.1	0.4
07/03/88	6.7	0.7
07/19/88	6.1	0.9
08/01/88	6.7	1.0
08/21/88	4.9	2.5
09/05/88	4.9	3.3
09/18/88	4.4	4.1
MEAN	5.5	2.0
MAX	6.7	4.1
MIN	4.0	0.4
N	9	9
SD	0.99	1.45

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	3.9	5.1
1976	2.4	6.6
1977	3.1	6.0
1978	4.2	4.3
1979	3.7	6.0
1980	3.8	6.5
1981	3.7	5.4
1982	2.5	5.4
1983 **	4.3	2.5
1984 *	3.0	7.6
1985	2.6	5.5
1986	3.2	6.8
1987	3.2	7.4
1988	5.5	2.0
MEAN	3.5	5.5
MAX	5.5	7.6
MIN	2.4	2.0
N	14	14
SD	0.84	1.65

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : RED HORSE : EAST BASIN
 TWP : REAR OF LEEDS & LANSLOWNE
 COUNTY : LEEDS

ID NUMBER : 12-0017-020-01

WATERSHED AREA : 335.00 sq. km
 SURFACE AREA : 135.0 ha.
 MAX DEPTH : 37.00 m.
 VOLUME : 15.55 mill cu. m.

SHORELINE : 12.90 km.
 COTTAGES : 24
 RESORTS : 1 (16)
 % CROWN LAND : 0

EAST BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/14/88	2.7	3.0
05/21/88	2.9	1.8
05/28/88	2.9	1.4
06/18/88	4.9	0.8
06/23/88	4.3	2.9
06/25/88	3.8	1.9
07/06/88	4.3	1.9
07/11/88	4.3	1.4
07/15/88	4.6	1.0
08/04/88	2.7	1.1
08/15/88	4.3	2.6
08/31/88	4.0	4.3
09/10/88	4.0	3.4
09/24/88	4.1	1.9
10/01/88	3.4	1.8
10/08/88	4.9	1.4
MEAN	3.9	2.0
MAX	4.9	4.3
MIN	2.7	0.8
N	16	16
SD	0.75	0.96

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	3.8	5.6
1981 **	2.8	7.8
1982 **	2.7	4.7
1983 **	3.7	3.9
1984 **	3.0	7.4
1985	3.8	4.0
1986	3.5	4.3
1987	3.6	2.9
1988	3.9	2.0
MEAN	3.4	4.7
MAX	3.9	7.8
MIN	2.7	2.0
N	9	9
SD	0.46	1.92

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : RED HORSE : WEST BASIN
 TWP : REAR OF LEEDS & LANSLOWNE
 COUNTY : LEEDS

ID NUMBER : 12-0017-013-01

WATERSHED AREA :	330.00	sq. km	SHORELINE :	13.80 km.
SURFACE AREA :	167.0	ha.	COTTAGES :	18
MAX DEPTH :	37.00	m.	RESORTS :	0
VOLUME :	15.07	mill cu. m.	% CROWN LAND :	0

WEST BASIN

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
06/18/88	3.5	
07/04/88	3.8	1.1
07/11/88	4.3	2.0
07/24/88	3.2	5.2
08/01/88	2.9	2.0
08/07/88	4.0	3.0
08/21/88	3.7	2.1
08/29/88	4.6	2.8
09/07/88	4.3	4.3
09/18/88	4.0	5.5
09/27/88	3.7	4.4
10/05/88	5.2	2.3
10/14/88	4.3	3.9
MEAN	4.0	3.2
MAX	5.2	5.5
MIN	2.9	1.1
N	13	12
SD	0.60	1.41

HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1975 **	3.7	6.0
1979	3.4	6.6
1980	3.4	9.2
1981 **	3.2	7.8
1982 **	3.3	4.3
1983 **	3.8	4.2
1984 **	3.0	7.1
1985	3.2	5.6
1986	3.2	7.9
1987	4.2	4.4
1988	4.0	3.2
MEAN	3.5	6.0
MAX	4.2	9.2
MIN	3.0	3.2
N	11	11
SD	0.38	1.88

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : SAINT ANDREW
TWP : HINCHINBROOKE
COUNTY : FRONTENAC

ID NUMBER : 17-0035-006-01

WATERSHED AREA : 2.80	sq. km	SHORELINE : 7.60	km.
SURFACE AREA : 79.0	ha.	COTTAGES : 20	(1983)
MAX DEPTH : 15.80	m.	RESORTS : 0	
VOLUME : 5.05	mill cu. m.	% CROWN LAND : 0	

UPPER LAKE

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/28/88	2.9	7.9
06/11/88	2.6	7.9
06/26/88	2.6	4.4
07/02/88	2.6	5.1
07/10/88	3.2	2.8
07/17/88	3.2	4.5
07/23/88	2.7	5.5
08/06/88	2.6	4.4
08/21/88	2.3	5.0
08/29/88	2.3	6.3
09/05/88	2.6	3.3
09/10/88	2.6	2.0
09/18/88	2.9	2.8
MEAN	2.7	4.8
MAX	3.2	7.9
MIN	2.3	2.0
N	13	13
SD	0.28	1.84

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1977	1.8	10.2
1978 *	1.9	8.9
1980	1.8	15.8
1981	1.7	12.3
1982	2.8	3.9
1983 **	3.5	3.4
1984	3.1	5.4
1985	3.3	2.8
1986	2.9	10.4
1987	2.5	5.4
1988	2.7	4.8
MEAN	2.5	7.6
MAX	3.5	15.8
MIN	1.7	2.8
N	11	11
SD	0.65	4.21

NOTE : * Based on less then 6 readings.
** Recreational lakes included.

LAKE : SAINT PETER, LAKE
TWP : MCLURE
COUNTY : HASTINGS

ID NUMBER : 18-3490-031-01

WATERSHED AREA	: 67.00	sq. km	SHORELINE	: 13.20 km.
SURFACE AREA	: 234.0	ha.	COTTAGES	: 182
MAX DEPTH	: 28.70	m.	RESORTS	: 10 (301)
VOLUME	: 17.78	mill cu. m.	% CROWN LAND	: 10

CENTER

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
07/02/88	4.6	1.7
07/31/88	3.8	1.5
09/03/88	6.1	1.1
09/19/88	5.5	2.4
MEAN	5.0	1.7
MAX	6.1	2.4
MIN	3.8	1.1
N	4	4
SD	1.01	0.54

HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1976 **	3.8	2.7
1977 **	4.8	1.7
1978 **	3.9	2.4
1979 **	3.4	2.7
1980	3.3	3.3
1982 *	3.6	
1983 **	3.9	2.0
1984 **	3.8	1.7
1985 **	4.0	1.6
1986 **	4.0	1.6
1987	4.5	2.3
1988 *	5.0	1.7
MEAN	4.0	2.2
MAX	5.0	3.3
MIN	3.3	1.6
N	12	11
SD	0.52	0.57

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : SALMON TROUT
TWP : MONTEAGLE
COUNTY : HASTINGS

ID NUMBER : 18-3490-032-01

WATERSHED AREA : 9.25	sq. km	SHORELINE : 7.90	km.
SURFACE AREA : 100.0	ha.	COTTAGES : 70	
MAX DEPTH : 14.00	m.	RESORTS : 0	
VOLUME : 3.8	mill cu. m.	% CROWN LAND : 21	

CENTER

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/16/88	4.1	1.1
06/06/88	4.7	3.0
06/27/88	3.7	2.6
07/12/88	3.5	1.5
07/19/88	5.5	2.8
08/03/88	5.3	4.0
08/18/88	4.9	7.5
08/29/88	4.3	5.1
09/27/88	2.9	12.0
10/24/88	4.1	7.1
MEAN	4.3	4.7
MAX	5.5	12.0
MIN	2.9	1.1
N	10	10
SD	0.82	3.36

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1974	3.7	2.1
1975 *	3.0	11.9
1976 **	3.4	9.9
1977 **	3.8	6.1
1978	4.2	7.5
1979	3.2	11.1
1980	3.3	17.6
1981	3.5	5.6
1982	3.7	3.6
1983	3.9	4.7
1984	3.6	4.1
1985	3.3	9.8
1986	3.6	5.7
1987	4.2	4.8
1988	4.3	4.7
MEAN	3.6	7.3
MAX	4.3	17.6
MIN	3.0	2.1
N	15	15
SD	0.39	4.07

NOTE : * Based on less then 6 readings.
** Recreational lakes included.

LAKE : SAND
TWP : SOUTH CROSBY
COUNTY : LEEDS

ID NUMBER : 12-0004-017-01

WATERSHED AREA	: 7.32	sq. km	SHORELINE	: 51.50 km.
SURFACE AREA	: 732.0	ha.	COTTAGES	: 110
MAX DEPTH	: 14.30	m.	RESORTS	: 3 (36)
VOLUME	: 37.81	mill cu. m.	% CROWN LAND	: 0

HISTORICAL RECORD

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/24/88	5.5	0.5
05/31/88	6.1	0.8
06/07/88	6.7	0.7
06/14/88	6.1	0.3
06/21/88	5.2	0.3
06/28/88	4.9	1.3
07/05/88	4.6	1.5
07/12/88	5.5	0.3
07/19/88	4.9	1.8
07/26/88	4.6	2.0
08/02/88	4.3	1.6
08/09/88	3.0	2.7
08/15/88	2.7	3.6
08/24/88	3.0	2.4
09/01/88	3.0	5.7
09/06/88	3.0	5.7
09/13/88	2.7	6.6
09/21/88	2.7	5.9
09/28/88	2.6	6.1
10/06/88	2.7	8.1
10/11/88	2.4	8.0
10/19/88	2.7	6.5
10/25/88	3.0	8.1
11/01/88	3.0	6.5
MEAN	4.0	3.6
MAX	6.7	8.1
MIN	2.4	0.3
N	24	24
SD	1.37	2.85

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971 **	2.9	2.5
1975 **	3.7	5.7
1980	3.0	7.2
1983	2.7	3.3
1984	2.8	5.2
1985	3.4	5.1
1986	3.0	4.5
1988	4.0	3.6
1987	3.5	3.0
MEAN	3.2	4.5
MAX	4.0	7.2
MIN	2.7	2.5
N	9	9
SD	0.45	1.50

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : SHABOMEKA
TWP : BARRIE
COUNTY : FRONTENAC

ID NUMBER : 18-3430-034-01

WATERSHED AREA : 40.90	sq. km	SHORELINE : 13.70 km.
SURFACE AREA : 268.0	ha.	COTTAGES : 104
MAX DEPTH : 32.00	m.	RESORTS : 0
VOLUME : 33.19	mill cu. m.	% CROWN LAND : 50

CENTRE

HISTORICAL RECORD

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/23/88	4.8	2.5
05/31/88	5.0	
06/07/88	4.9	2.8
06/14/88	5.2	1.4
06/22/88	5.0	1.6
06/27/88	5.7	1.1
07/03/88	6.2	1.2
07/11/88	6.0	1.6
07/17/88	5.5	1.1
07/25/88	6.3	1.7
08/02/88	5.7	1.2
08/07/88	5.6	0.8
08/16/88	5.5	2.2
08/21/88	4.8	1.8
08/28/88	4.9	3.0
09/07/88	4.6	2.4
09/11/88	4.8	2.5
09/18/88	5.2	2.7
09/25/88	4.7	3.3
10/05/88	4.3	2.8
MEAN	5.2	2.0
MAX	6.3	3.3
MIN	4.3	0.8
N	20	19
SD	0.55	0.76

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1976 **	5.1	2.7
1980 **	5.1	3.8
1981	4.4	3.2
1983 *	4.8	2.1
1984	5.2	3.2
1985	4.3	2.5
1986	4.5	2.4
1987	4.9	2.5
1988	5.2	2.0
MEAN	4.8	2.7
MAX	5.2	3.8
MIN	4.3	2.0
N	9	9
SD	0.36	0.58

NOTE : * Based on less than 6 readings.
** Recreational lakes included.

LAKE : SILVER
 TWP : OSO, SOUTH SHERBROOKE
 COUNTY : FRONTENAC, LANARK

ID NUMBER : 18-3430-027-01

WATERSHED AREA	: 29.70	sq. km	SHORELINE	: 9.20	km.
SURFACE AREA	: 246.0	ha.	COTTAGES	: 87 + 1	HOUSE
MAX DEPTH	: 24.40	m.	RESORTS	: 3	(185)
VOLUME	: 24.91	mill cu. m.	% CROWN LAND	: 10	

HISTORICAL SUMMARY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/06/88	3.9	1.9
05/16/88	3.8	1.5
05/29/88	4.2	1.2
06/08/88	5.0	1.0
06/17/88	4.7	1.6
07/04/88	3.4	1.4
07/10/88	2.9	1.7
07/18/88	2.3	2.6
07/27/88	2.9	1.6
08/03/88	3.3	1.1
08/09/88	3.4	1.5
08/18/88	3.2	3.1
09/01/88	3.4	1.7
09/15/88	4.5	2.2
09/26/88	4.8	2.0
10/03/88	4.7	1.7
10/15/88	4.6	3.0
MEAN	3.8	1.8
MAX	5.0	3.1
MIN	2.3	1.0
N	17	17
SD	0.80	0.61

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	3.7	2.5
1977	3.5	2.4
1978	3.5	2.7
1979 **	4.0	2.7
1980	3.4	3.6
1981	3.6	3.0
1982	4.1	2.4
1983	3.9	2.0
1984	3.4	3.0
1985	3.7	2.3
1986	4.3	3.2
1987	4.8	2.4
1988	3.8	1.8
MEAN	3.8	2.6
MAX	4.8	3.6
MIN	3.4	1.8
N	13	13
SD	0.40	0.49

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : SKOOTAMATTA : UPPER LAKE (W.B)
 TWP : ANGLESEA
 COUNTY : LENNOX & ADDINGTON

ID NUMBER : 17-0026-005-01

WATERSHED AREA : 49.34	sq. km	SHORELINE : 9.60	km.
SURFACE AREA : 456.0	ha.	COTTAGES : 36	(1974)
MAX DEPTH : 29.30	m.	RESORTS : 0	
VOLUME : 4.33	mill cu. m.	% CROWN LAND : 0	

UPPER BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/17/88	2.9	3.1
06/24/88	3.2	1.0
07/05/88	3.8	0.7
07/16/88	3.8	0.4
07/25/88	4.1	0.2
07/31/88	4.1	0.6
08/19/88	4.7	0.8
09/02/88	4.4	1.3
09/15/88	4.4	1.9
MEAN	3.9	1.1
MAX	4.7	3.1
MIN	2.9	0.2
N	9	9
SD	0.58	0.90

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1974 **	4.2	3.0
1975 **	3.7	5.2
1980 *	3.7	3.2
1982 *	4.0	3.4
1983	3.4	1.5
1984	3.3	3.0
1985	3.5	2.3
1986	3.0	2.4
1987	3.6	1.5
1988	3.9	1.1
MEAN	3.6	2.7
MAX	4.2	5.2
MIN	3.0	1.1
N	10	10
SD	0.25	1.20

NOTE : * Based on less then 6 readings.
 ** Recreational lakes included.

LAKE : SOUTH
 TWP : FRONT & REAR OF LEEDS & LANSDOWNE
 COUNTY : LEEDS

ID NUMBER : 12-0017-019-01

WATERSHED AREA : 38.91	sq. km	SHORELINE : 10.94 km.
SURFACE AREA : 220.0	ha.	COTTAGES : 17 + 1 HOUSE
MAX DEPTH : 14.63	m.	RESORTS : 0
VOLUME : 11.73	mill cu. m.	% CROWN LAND : 1

MOUTH OF WILLOW BROOK

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/22/88	4.3	5.5
07/29/88	3.4	8.6
08/05/88	2.1	5.9
08/11/88	1.2	11.0
08/18/88	1.4	16.0
08/25/88	1.5	18.0
09/01/88	1.4	24.0
09/08/88	1.2	32.0
09/15/88	1.1	49.0
09/23/88	0.8	57.0
09/29/88	0.6	40.0
10/06/88	1.5	17.0
MEAN	1.7	23.7
MAX	4.3	57.0
MIN	0.8	5.5
N	12	12
SD	1.07	17.21

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1981 **	2.1	8.9
1982 **	1.5	13.5
1983 **	2.1	8.0
1984 **	2.0	8.2
1986	1.3	17.5
1987	1.5	12.2
1988	1.7	23.7
MEAN	1.7	13.1
MAX	2.1	23.7
MIN	1.3	8.0
N	7	7
SD	0.33	5.76

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : STEENBURG
TWP : TUDOR, LIMERICK
COUNTY : HASTINGS

ID NUMBER : 17-0021-011-01

WATERSHED AREA : 21.50	sq. km	SHORELINE : 13.70 km.
SURFACE AREA : 277.0	ha.	COTTAGES : 203
MAX DEPTH : 20.10	m.	RESORTS : 0
VOLUME : 15.62	mill cu. m.	% CROWN LAND : 0

CENTER

HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
07/26/88	4.0	0.2

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1975 **	4.6	2.4
1977	4.7	3.0
1978	4.3	3.0
1979	4.5	3.1
1980	4.3	2.4
1984	3.9	3.6
1985 *	4.2	3.1
1986	3.8	3.1
1987	3.9	1.7
1988 *	4.0	0.3
MEAN	4.2	2.6
MAX	4.7	3.6
MIN	3.8	0.3
N	10	10
SD	0.33	0.96

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : STOCO
 TWP : HUNGERFORD
 COUNTY : HASTINGS

ID NUMBER : 17-0026-008-01

WATERSHED AREA :	2230.00	sq.km	SHORELINE :	16.00 km.
SURFACE AREA :	500.0	ha.	COTTAGES :	90
MAX DEPTH :	9.76	m.	RESORTS :	4 (26)
VOLUME :	19.93	mill cu. m.	% CROWN LAND :	0

NORTHEAST END

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/17/88	1.0	4.1
07/24/88	1.8	10.0
08/01/88	1.5	11.0
08/07/88	1.2	23.0
08/14/88	1.1	32.0
08/22/88	1.2	15.0
08/28/88	1.2	22.0
09/05/88	1.4	15.0
09/11/88	1.2	26.0
09/18/88	1.6	20.0
09/25/88	1.8	12.0
10/02/88	1.5	19.0
10/10/88	2.0	13.0
10/17/88	1.7	20.0
10/23/88	1.7	18.0
10/30/88	1.8	11.0
MEAN	1.5	16.9
MAX	2.0	32.0
MIN	1.0	4.1
N	16	16
SD	0.30	6.96

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1972 **	1.3	9.0
1973 **	1.5	23.5
1974 **	2.4	5.8
1975 **	2.0	20.1
1984 **	1.2	26.1
1985	1.6	10.0
1986 *	2.1	12.9
1987 *	2.1	4.9
1988	1.5	16.9
MEAN	1.7	14.2
MAX	2.4	26.1
MIN	1.2	4.9
N	9	9
SD	0.42	7.55

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : SYDENHAM
 TWP : LOUGHBOROUGH
 COUNTY : FRONTENAC

ID NUMBER : 06-0180-003-01

WATERSHED AREA :	49.00	sq. km	SHORELINE :	42.00 km.
SURFACE AREA :	451.0	ha.	COTTAGES :	152
MAX DEPTH :	37.00	m.	RESORTS :	2 (51)
VOLUME :	32.05	mill cu. m.	% CROWN LAND :	0

100 METERS OFF NORTH SHORE

HISTORICAL RECORD

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/16/88	5.3	2.1
06/27/88	5.6	
07/15/88	5.8	6.6
07/21/88	5.2	4.7
08/03/88	4.0	3.2
08/22/88	4.9	5.1
09/07/88	5.2	5.5
09/26/88	5.2	4.0
10/11/88	4.9	4.9
10/31/88	4.0	6.0
11/22/88	3.7	8.6
MEAN	4.9	5.1
MAX	5.8	8.6
MIN	3.7	2.1
N	11	10
SD	0.69	1.81

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1977	5.0	5.1
1978	3.6	3.2
1979	3.6	4.5
1980	4.3	4.8
1982 *	3.7	3.6
1983	3.8	2.2
1984 **	3.8	2.9
1987 *	4.0	2.5
1988	4.9	5.1
MEAN	4.1	3.8
MAX	5.0	5.1
MIN	3.6	2.2
N	9	9
SD	0.54	1.14

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : TAIT
TWP : DUNGANNON
COUNTY : HASTINGS

ID NUMBER : 18-3490-036-01

WATERSHED AREA :	1.4	sq. km	SHORELINE :	3.2	km.
SURFACE AREA :	20.7	ha.	COTTAGES :	33	
MAX DEPTH :	5.5	m.	RESORTS :		
VOLUME :	0.639	mill cu. m.	% CROWN LAND :	0	

CENTRE OF LAKE

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/19/88	5.0	0.9
07/28/88	4.3	0.8
08/04/88	4.3	0.7
08/11/88	4.0	1.7
08/16/88	4.3	2.1
08/30/88	4.6	1.5
09/13/88	4.6	1.0
09/21/88	4.1	1.0
MEAN	4.4	1.2
MAX	5.0	2.1
MIN	4.0	0.7
N	8	8
SD	0.32	0.50

KELLYS BAY

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/19/88	5.2	0.8
07/28/88	4.0	1.0
08/11/88	4.4	1.5
08/16/88	4.9	1.1
08/30/88	4.3	1.6
09/13/88	4.3	1.3
09/21/88	4.9	1.4
MEAN	4.6	1.2
MAX	5.2	1.6
MIN	4.0	0.8
N	7	7
SD	0.43	0.29

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1971	3.7	3.0
1972	5.6	1.4
1973	4.1	2.3
1988	4.5	1.2
MEAN	4.5	2.0
MAX	5.6	3.0
MIN	3.7	1.2
N	4	4
SD	0.82	0.83

LAKE : THIRTEEN ISLAND

ID NUMBER : 17-0035-015-01

TWP : BEDFORD, HINCHINBROOKE, LOUGHBOROUGH, PORTLAND

COUNTY : FRONTENAC

WATERSHED AREA : 40.00 sq. km

SURFACE AREA : 132.0 ha.

MAX DEPTH : 25.90 m.

VOLUME : 6.63 mill cu. m.

SHORELINE : 13.80 km.

COTTAGES : 60

RESORTS : 2 (4)

% CROWN LAND : 0

CENTER

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/01/88	3.3	1.6
05/08/88	3.3	2.2
05/15/88	4.0	0.9
05/23/88	4.3	0.8
05/29/88	4.3	1.2
06/05/88	4.0	1.0
06/12/88	4.0	3.1
06/19/88	4.0	1.5
06/26/88	4.0	1.1
07/03/88	4.3	0.1
07/10/88	4.3	1.0
07/17/88	4.3	1.3
07/24/88	4.3	2.9
08/01/88	4.3	1.5
08/07/88	4.0	4.0
08/14/88	4.3	1.8
08/20/88	4.0	3.5
08/28/88	4.0	4.4
09/05/88	4.0	3.1
09/11/88	4.0	3.4
09/18/88	4.0	4.9
09/25/88	4.3	5.4
10/02/88	4.3	5.7
10/10/88	4.0	7.4
10/30/88	3.7	7.2
MEAN	4.1	2.8
MAX	4.3	7.4
MIN	3.3	0.1
N	25	25
SD	0.29	2.05

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1975 **	4.3	4.2
1983	3.3	3.4
1984 **	3.8	4.3
1985	3.5	3.7
1986	3.3	6.7
1987	3.4	4.1
1988	4.1	2.8
MEAN	3.7	4.2
MAX	4.3	6.7
MIN	3.3	2.8
N	7	7
SD	0.40	1.23

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : TROY
TWP : SOUTH CROSBY
COUNTY : LEEDS

ID NUMBER : 12-0004-019-01

WATERSHED AREA :	8.17	sq. km	SHORELINE :	8.50	km.
SURFACE AREA :	119.0	ha.	COTTAGES :	16	(1974)
MAX DEPTH :	5.20	m.	RESORTS :	0	
VOLUME :	2.74	mill cu. m.	% CROWN LAND :	0	

CENTER

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(MM/DD/YY)	(METERS)	(UG/L)
05/23/88	3.4	2.5
05/29/88	3.7	1.8
06/05/88	3.4	0.9
06/12/88	3.0	1.1
06/19/88	4.6	1.1
07/03/88	3.8	2.4
07/10/88	4.3	3.0
07/17/88	4.3	3.9
07/27/88	3.3	7.1
08/14/88	2.3	9.3
08/21/88	1.5	11.0
09/18/88	1.5	13.0
MEAN	3.3	4.8
MAX	4.6	13.0
MIN	1.5	0.9
N	12	12
SD	1.03	4.24

HISTORICAL RECORD

SAMPLE DATE	SECCHI DEPTH	CHLOROPHYLL A
(YEAR)	(METERS)	(UG/L)
1975 **	2.1	9.3
1977	1.7	10.4
1978	1.9	11.1
1979	2.0	12.0
1980	2.3	10.1
1981	2.3	6.3
1982	2.4	8.4
1983	2.0	10.7
1984	2.4	8.0
1985	2.6	8.5
1986	1.9	13.5
1987	3.4	3.2
1988	3.3	4.8
MEAN	2.3	8.9
MAX	3.4	13.5
MIN	1.7	3.2
N	13	13
SD	0.52	2.89

NOTE : * Based on less than 6 readings.

** Recreational lakes included.

LAKE : TWIN SISTER : EAST BASIN
 TWP : MARMORA
 COUNTY : HASTINGS

ID NUMBER : 17-0021-012-01

WATERSHED AREA :	6.90	sq. km	SHORELINE	:	4.40	km.
SURFACE AREA :	51.0	ha.	COTTAGES	:	20	
MAX DEPTH :	8.54	m.	RESORTS	:	0	
VOLUME :	1.74	mill cu. m.	% CROWN LAND	:	0	

EAST BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
06/07/88	3.2	2.6
06/12/88	3.8	1.0
06/16/88	3.8	1.9
06/26/88	3.7	8.0
07/04/88	4.1	1.9
07/13/88	3.5	2.6
07/19/88	3.5	2.4
07/24/88	3.6	4.2
07/30/88	3.5	0.6
08/04/88	3.8	0.8
08/08/88	3.8	6.0
08/16/88	4.1	6.5
08/23/88	3.5	0.4
08/30/88	3.2	7.0
09/06/88	3.8	5.0
09/28/88	3.0	6.3
10/09/88	2.6	5.3
MEAN	3.6	3.7
MAX	4.1	8.0
MIN	2.6	0.4
N	17	17
SD	0.39	2.51

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1980 **	3.9	5.2
1981 *	3.5	5.0
1982	3.4	2.2
1983	3.5	3.3
1984	3.8	5.0
1985	3.6	4.7
1986	3.4	4.0
1987	3.0	6.0
1988	3.6	3.7
MEAN	3.5	4.3
MAX	3.9	6.0
MIN	3.0	2.2
N	9	9
SD	0.26	1.16

NOTE : * Based on less then 6 readings.
 ** Recreational lakes included.

LAKE : TWIN SISTER : WEST BASIN
 TWP : MARMORA
 COUNTY : HASTINGS

ID NUMBER : 17-0021-013-01

WATERSHED AREA	: 8.70	sq. km	SHORELINE	: 3.20	km.
SURFACE AREA	: 35.0	ha.	COTTAGES	: 21	
MAX DEPTH	: 13.40	m.	RESORTS	: 0	
VOLUME	: 1.96	mill cu. m.	% CROWN LAND	: 0	

WEST BASIN

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
05/07/88	2.6	3.2
05/23/88	3.0	1.4
05/29/88	3.2	1.3
06/19/88	3.4	1.9
07/03/88	3.0	1.2
07/17/88	3.4	1.1
07/23/88	4.0	1.2
08/01/88	4.0	0.9
08/07/88	3.8	1.9
08/15/88	3.7	2.8
08/21/88	4.0	2.8
09/18/88	3.8	1.9
10/09/88	3.4	2.4
MEAN	3.5	1.8
MAX	4.0	3.2
MIN	2.6	0.9
N	13	13
SD	0.45	0.75

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1977	3.6	2.9
1980 **	3.9	4.3
1981	4.4	2.9
1982	3.6	3.3
1983	3.5	2.5
1984	3.5	4.7
1985	3.8	5.3
1986	3.0	3.7
1987	3.3	4.6
1988	3.5	1.8
MEAN	3.6	3.6
MAX	4.4	5.3
MIN	3.0	1.8
N	10	10
SD	0.37	1.11

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

LAKE : WOLLASTON
TWP : WOLLASTON
COUNTY : HASTINGS

ID NUMBER : 17-0021-014-01

WATERSHED AREA	: 124	sq. km	SHORELINE	: 13.0	km.
SURFACE AREA	: 368	ha.	COTTAGES	: 178	
MAX DEPTH	: 32.0	m.	RESORTS	: 2 (197)	
VOLUME	: 34.67	mill cu. m.	% CROWN LAND	: 12	

VARIOUS LOCATIONS

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
07/05/88	4.7	1.1
07/12/88	4.0	1.4
07/18/88	3.9	1.6
07/25/88	4.3	1.9
08/02/88	4.6	1.1
08/08/88	5.2	1.4
08/23/88	4.6	0.5
09/03/88	5.6	1.1
MEAN	4.6	1.3
MAX	5.6	1.9
MIN	3.9	0.5
N	8	8
SD	0.57	0.42

HISTORICAL RECORD

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1977 **	5.1	1.8
1978	4.7	3.2
1980 *	5.4	1.8
1981 *	4.8	2.0
1983 *	3.7	1.5
1984 *	4.1	3.0
1988	4.6	1.3
MEAN	4.6	2.1
MAX	5.4	3.2
MIN	3.7	1.3
N	7	7
SD	0.58	0.73

NOTE : * Based on less then 6 readings.
** Recreational lakes included.

LAKE : WEST
 TWP : HALLOWELL
 COUNTY : PRINCE EDWARD

ID NUMBER : 06-0163-001-01

WATERSHED AREA	: 119.00	sq. km	SHORELINE	: 12.20 km.
SURFACE AREA	: 502.0	ha.	COTTAGES	: 82 + 104 HOUSES
MAX DEPTH	: 4.60	m.	RESORTS	: 22 (139)
VOLUME	: 9.94	mill cu. m.	% CROWN LAND	: 1

NORTH OF SHEBA ISLAND

SAMPLE DATE (MM/DD/YY)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
08/29/88	1.1	16.0
09/12/88	0.8	5.4
09/19/88	0.8	10.0
09/29/88	0.8	5.3
10/03/88	0.7	15.0
10/19/88	0.6	13.0
10/26/88	0.6	18.0
10/31/88	0.5	14.0
11/22/88	0.5	6.0
12/05/88	0.5	9.0
MEAN	0.7	11.2
MAX	1.1	18.0
MIN	0.5	5.3
N	10	10
SD	0.19	4.67

NORTH AND SOUTH BASINS

SAMPLE DATE (YEAR)	SECCHI DEPTH (METERS)	CHLOROPHYLL A (UG/L)
1980 **	2.2	6.5
1983	1.2	5.0
1984	1.4	8.1
1985 **	1.0	11.6
1986 **	1.5	9.3
1987 **	1.5	4.5
1988	0.7	11.2
MEAN	1.4	8.0
MAX	2.2	11.6
MIN	0.7	4.5
N	7	7
SD	0.47	2.84

NOTE : * Based on less than 6 readings.
 ** Recreational lakes included.

